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Illustrated Catalogue

PHOTOGRAPHIC EQUIPMENT

and

MATERIALS FOR AMATEURS

E. & H. T. ANTHONY & CO.

591 BROADWAY NEW YORK



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*I*LLUSTRATED
*C*ATALOGUE
OF
*P*hotographic

Equipments and Materials,

*A*MATEURS.

January, 1891.

JOHN POLHEMUS,
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IMPORTANT.

In this list the prices of many Cameras, Lenses, Tripods, etc., are given separately, for those who desire to make up an equipment differing from those presented herein.

When the price is given for *camera, holder and carrying case, it includes neither lens nor tripod.* Our list has been prepared with great care, and we have endeavored to be explicit enough to enable any one to select such articles as will make a harmonious equipment. The sizes given are the largest that each camera will admit of, but smaller plates can be used in each by means of our inside kits, for each of which we give the outside dimensions with size of plate that can be used in same.

As our equipments are sold at a less price than the several parts could be bought for separately and combined, we suggest the purchase of such *complete*, wherever possible, as a matter of economy. Where lenses different from those accompanying the equipments are required, the price for making up such special outfit can readily be reached, as prices are given for the different parts that can be supplied separately.

When prices for such parts are not given, it designates that such outfit is sold in one way only, viz., *complete*.

As will be seen, a complete outfit for making pictures measuring 4 x 5 inches can be purchased for \$19.00 as follows :

No. 1 Equipment, described on page 2,	. . . . .	\$9 00
4 x 5 Developing Outfit, described on page 95,	. . . . .	5 25
4 x 5 Printing Outfit, described on page 95,	. . . . .	4 75

This will include everything necessary for making and developing one dozen negatives, and making and mounting two dozen prints from these negatives.

The cost of making subsequent pictures would be trifling, as the developing and printing outfits include trays, graduates, funnels, etc., that will last for years, and sufficient chemicals for making several dozen additional negatives and prints.

A corresponding outfit for making 5 x 8 pictures would cost \$22.50, as follows :

No. 2 Equipment, described on page 2,	. . . . .	\$10 00
5 x 8 Developing Outfit, described on page 95,	. . . . .	6 50
5 x 8 Printing Outfit, described on page 95,	. . . . .	6 00

Developing and printing outfits adapted to equipments of other sizes will be found on pages 85 and 86 of this catalogue.

 The prices given in this catalogue are liable to fluctuation. When any article is reduced, the buyer will get the benefit without reference to the printed list.

Read Carefully these Few Facts.

Presumably the reader of the following pages knows something of the interesting art for which the articles enumerated in this catalogue are provided. If not, he can acquire a general idea of it from what follows, and we shall be pleased, on receipt of fifty cents, to mail to any address a book, in which all the details are given, entitled How to Make Photographs ; A Manual for Amateurs, by T. C. Roche, recently published by our house. It has been penned and edited by eminent theoretical and practical photographers, and with the purpose of stating in the most simple and concise language, everything necessary for any one to know who may be disposed to engage in photography as an amateur. It will be found equally serviceable to those who desire to practice the art as an aid in their business or profession, and all its statements may be implicitly relied on for accuracy and practicability.

The introduction of the gelatino-bromide dry plate has so revolutionized photography that but little preliminary knowledge of it is now essential ; in fact, it is astonishing what can be accomplished by totally inexperienced amateurs who may exercise a little taste and judgment.

It is scarcely to be supposed that success should always attend one's first efforts, but rapid progress can generally be made by old or young, lady or gentleman, who may manifest the slightest disposition to excel.

Unlike the old "wet" plate, the gelatino-bromide process has the advantage of admitting a much wider latitude of exposure—that is to say, the actual time which the sensitive plate may now be subjected to light, though still important, is far less so than by the old collodion process, and the subsequent operations are free from the former objections of complexity, uncertainty and stains. The apparatus and chemicals required are also few and inexpensive, and there is nothing which the veriest tyro in chemistry cannot readily master.

Another obvious improvement is recognized in the exceeding lightness and portability of the equipments, and their greater adaptability to the requirements of the public.

Unfortunately the increasing demand has led many persons to engage in the manufacture and sale of apparatus and materials that are quite inadequate for the attainment of satisfactory results. We therefore point with pride to the intrinsic excellence of every item in the following list—the outcome of *more than forty-eight years'* diligent effort and experience in the preparation of photographic supplies.

In selecting an outfit from those described in the following pages there are two axioms it will be well to bear in mind. They are:

First.—The larger the camera, the greater the bulk and weight.

Second.—While a small picture can be made with a large camera, a large picture *cannot* be made with a small camera.

Remember, we do not make a single toy ; all our cameras are practical working instruments such as are in constant use by professional photographers. All are fitted with our Patent Double Dry Plate Holders, which are by far the lightest, tightest and handiest holders made, and have done as much as any other one thing toward giving popularity to our equipments. The equipments are fitted with fine single achromatic lenses, which (with the exception of the 4 x 5) are provided with changeable diaphragms, so that the time of exposure may be varied to suit the subject.

They are adapted for landscapes and out-of-door groups and in a good light require but a second's time (or even less) to make a picture. Amateurs who aim to excel, and with whom the cost is a secondary consideration, are invited to examine the more expensive double achromatic lenses described in the following pages.

Those made by DALLMEYER especially can be depended on as being *absolutely the best in market*. With these the very finest results are possible.

In buying do not forget that you are not going to make an experiment. Your success is assured if you follow the printed directions. Thousands have succeeded before you with only the ordinary amount of brains, and some with less than is allowed to mankind generally. So when you buy, buy as good an outfit as you can afford. With a cheap instrument you can do good work, but with the better grades you can do better work more easily. First decide what size you want, then *get the best you can afford of that size*.

With these few hints and explanations we take pleasure in opening to your view and for your consideration the pages of this little book, with the further assurance that everything therein mentioned is guaranteed to be exactly as described.

Catalogue for Amateurs.

Eureka School Outfit.

A. Carrying Case.

B. Ruby Lamp.

C. Double Plate Holder.

D. Dry Plates.

EE. Developing Trays.

F. Glass Graduate.

G. Developing and Toning Solution.

H. Hyposulphite Soda.

I. Printing Frame.

J. Sensitized Paper.

K. Card Mounts.

Focusing Cloth.

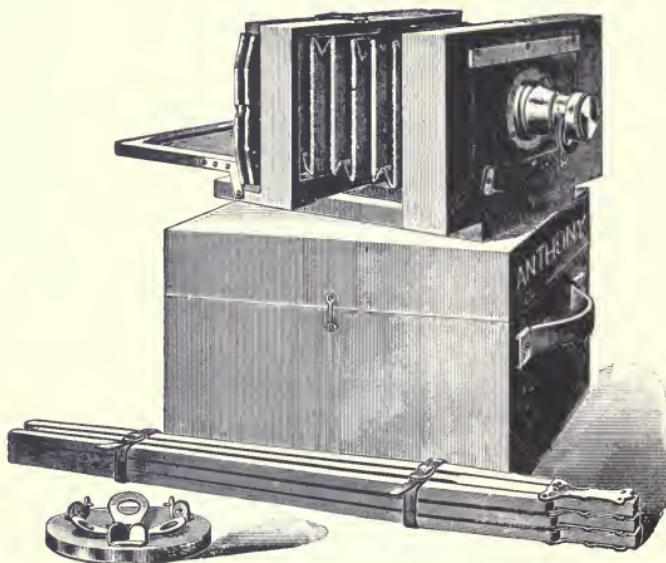


THIS EQUIPMENT is intended as a means of learning the elementary steps of photography by practical working, at an extremely low price, and, while none of the several parts of the equipment are made with elaborate finish or ornamentation, they are all practicable and good results can be obtained with them, as the pictures produced by the equipment demonstrate. The equipment comprises a 4x5 camera, with lens, folding tripod, and complete developing and printing outfit, as indicated in above cut.

Price complete, \$7.50

Manhattan Equipment.*

THE CAMERA which forms a part of this Equipment is of mahogany, well finished and thoroughly practicable; it is adapted to making of pictures either vertically or horizontally. The equipment comprises, besides the camera, one patent double zephyr dry plate holder, a single achromatic lens, tripod and carrying case.



With the 4x5 size, the triple jointed climax tripod is furnished, and with the other two sizes the improved folding tripod No. 1.

No.	Size of View.	Price.	Extra Zephyr Double Plate Holders, each.	Extra Eclipse Double Plate Holders, each.
1	4 x 5	\$9.00	\$1.20	
1½	4½ x 6½	10.00	1.25	\$2.20
2	5 x 8	10.00	1.35	2.20
3	5 x 8	16.50	1.35	2.20

Manhattan Equipment No. 3 is similar to No. 2 of the same name, and has in addition to the lens for 5x8 pictures, a pair of fine achromatic lenses for making either stereoscopic views on a 5x8 plate, or two 4x5 views on a plate 5x8 inches. The price, including the lenses, tripod and carrying case, is \$16.50. The lens for making the 5x8 picture may be

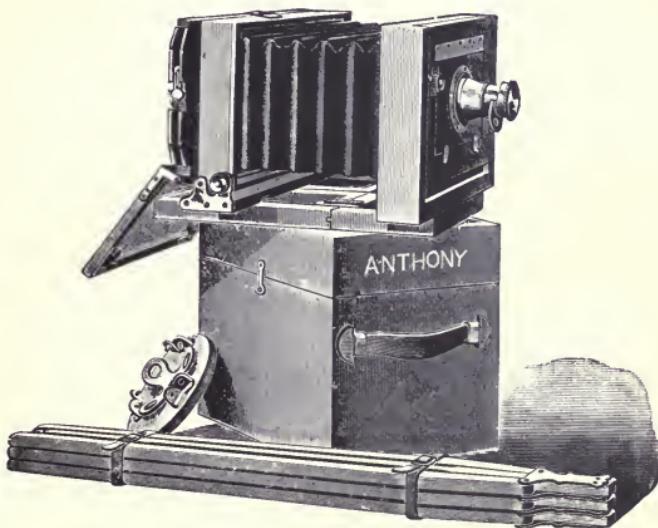
* These Equipments are the same as those formerly known by numbers only, as above.

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omitted from this Equipment if desired, and the price for the outfit complete with the two 4x5 lenses will be \$13.50.

Champion Equipment.

THE CAMERA included in this Equipment is of mahogany, with fine varnish finish, and is provided with folding bed (made rigid by the use of our patent clamps), rising front and swing back, and is adapted to either vertical or horizontal pictures. In addition to the

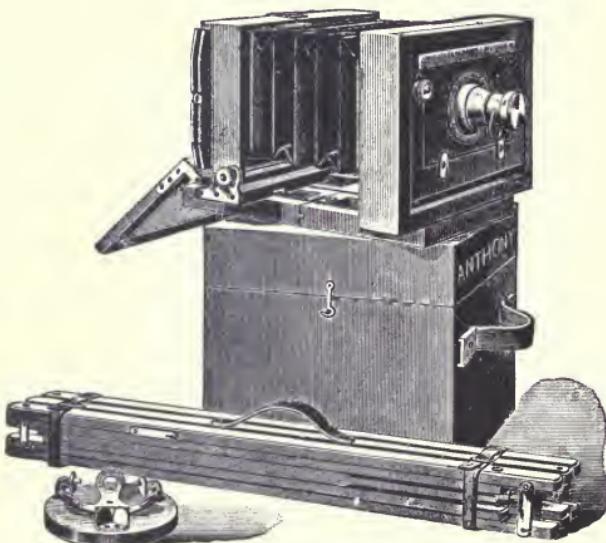


above camera, the equipment includes one patent zephyr double dry plate holder, carrying case, fine single achromatic lens, and improved folding tripod.

Size of View.	Price.	Extra Double Zephyr Plate Holders, each.	Extra Double Eclipse Plate Holders, each.
4 x 5	\$10.00	\$1.20	
4½ x 6½	12.00	1.25	\$2.20
5 x 7	12.00	1.25	2.20
5 x 8	12.00	1.35	2.20
6½ x 8½	14.00	1.60	3.30
8 x 10	20.00	1.85	4.30

O. N. A. Equipment.

THE CAMERA which forms a part of this Equipment, is of highly polished mahogany, the metal work having the draw file finish like that on the finest mathematical instruments, and being lacquered to prevent tarnishing. It is provided with a bed which folds for convenience in packing and has single swing and rising front.



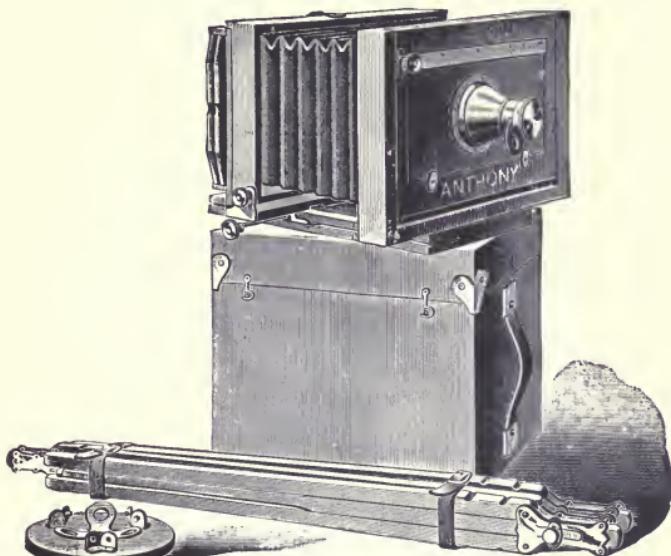
This camera can be used either vertically or horizontally. The outfit includes, beside the camera, a fine single achromatic lens, a patent zephyr double dry plate holder, an improved triple jointed climax tripod and carrying case, except in the case of the two sizes $6\frac{1}{2} \times 8\frac{1}{2}$ and 8×10 , which have our patent telescopic folding tripod, as stated below.

Equipment Number.	Size of View.	Price.	Extra Double Zephyr Plate Holders, each.	Extra Double Eclipse Plate Holders, each.
1 B	4 x 5	\$12.00	\$1.20	
1 $\frac{1}{2}$ B	4 $\frac{1}{2}$ x 6 $\frac{1}{2}$	13.00	1.25	\$2.20
1 $\frac{3}{4}$ B	5 x 7	14.00	1.25	2.20
* 2 B	5 x 8	15.00	1.35	2.20

* This Equipment is also fitted with a shutter for instantaneous work, which is included in the price named.

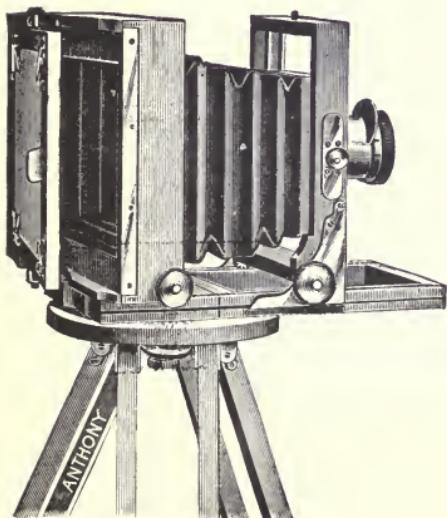
Catalogue for Amateurs.

O. N. A. equipments, numbers 7 B and 8 B, are similar to those previously described, except that they are fitted with a patent *telescopic* folding tripod, as shown in the cut.



Equipment Number.	Size of View.	Price.	Extra Double Zephyr Plate Holders, each.	Extra Double Eclipse Plate Holders, each.
7 B	6½ x 8½	\$20.00	\$1.60	\$3.30
8 B	8 x 10	26.00	1.85	4.30

Victor Equipment.



THE CAMERA forming a part of this equipment is of highly polished mahogany, and the metal work has the draw file finish, similar to that used on the best mathematical instruments. The camera has rising front, single swing and front focus; is fitted with the double rack and pinion movement and folding bed. It can be used either vertically or horizontally by means of a plate on the side and has also the patent spring actuated ground glass, which is always ready, but never in the way. The equipment includes,

beside the camera, a patent Eclipse double dry plate holder, fine single achromatic lens, Triplex tripod and canvas carrying case, which contains all the above named articles except the tripod legs.

Size of View.	Price.	Extra Zephyr Double Plate Holders, each.	Extra Eclipse Double Plate Holders, each.
4 x 5	\$16.00	\$1.20	
4½ x 6½	17.00	1.25	\$2.20
5 x 7	18.00	1.25	2.20
5 x 8	20.00	1.35	2.20
6½ x 8½	24.00	1.60	3.30
8 x 10	31.50	1.85	4.30

Anthony's Bicycle Equipment.



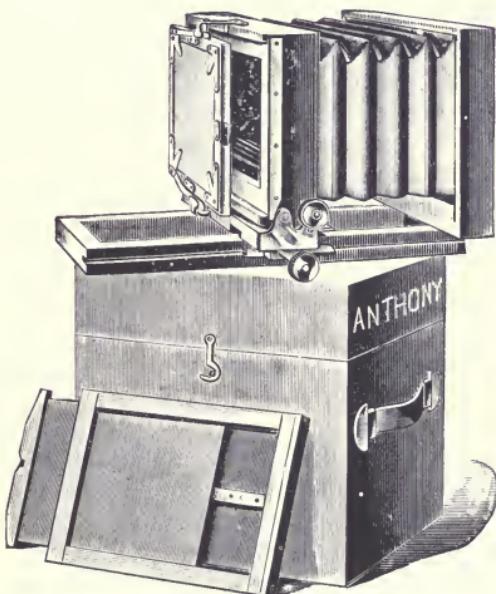
THE several parts which make up this very compact equipment are as follows: A handsome mahogany camera, suitable for views $3\frac{1}{4} \times 4\frac{1}{2}$, a fine single achromatic lens, patent double dry plate

Catalogue for Amateurs.

holder and a sole leather carrying case with shoulder strap for convenience in carrying, and a clamp for attaching camera to bicycle when in use. The weight of this complete outfit is exactly 2 pounds.

Price complete, \$10. Extra double dry plate holders, each, \$1.60
Telescopic "y" shaped bicycle support, 1.50

The N. P. A. Camera.



THIS is a highly polished mahogany camera with patent swing back rising front, folding bed, patent clamp hooks (to make the bed rigid), extra front and stereoscopic partition. The metal work has the draw file finish, similar to that on the finest mathematical instruments. By means of a plate on the side, this camera can be reversed on the tripod and used to make a vertical picture. This is the same camera as used in our O. N. A. Equipment. Prices, including camera as above, one patent double Zephyr dry plate holder and carrying case:

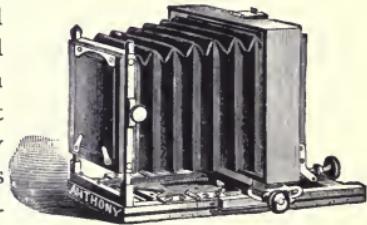
The Patent Bijou Camera.

THIS LITTLE CAMERA is one of the neatest of its kind ever made. When folded, it measures $5 \times 5 \times 3\frac{1}{2}$ inches, and can readily be put in an ordinary hand-grip or may even be carried in the overcoat pocket. It weighs only $14\frac{1}{2}$ ounces, and the holders are correspondingly light and compact.

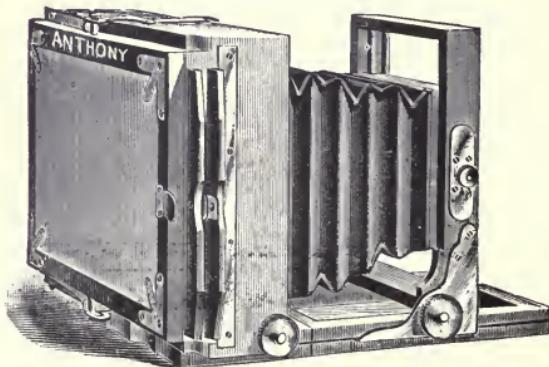
It has a sliding front, hinged ground glass, and folding bed, which is provided with a novel arrangement for fixing it in position, enabling the operator to adjust it in a few seconds. It is made of highly polished mahogany, with flexible bellows and brass mountings, making a remarkably elegant little instrument.

As the plate is the same size as those used with magic lanterns, slides may be made from them by contact printing in an ordinary printing frame. By using bromide paper in connection with a Cooper enlarging lantern, the pictures may be made as large as desired. For tourists, to whom weight and bulk are objections, this camera is of especial value.

Price of camera, with one double holder,	. . . . .	\$ 9.00
With swing back,	. . . . .	12.00
Price of patent improved double dry plate holders, $3\frac{1}{2} \times 4\frac{1}{2}$ each,		1.80

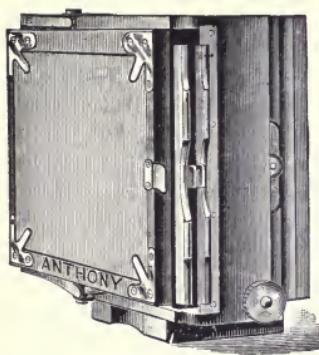


The Victor Camera.



THIS CAMERA is made of highly polished mahogany, and the metal work has the draw file finish, the same as that used on the finest mathematical instruments.

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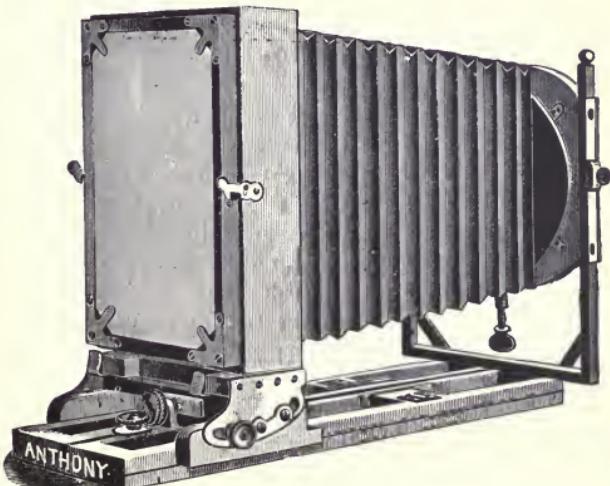


It is provided with rising front and single swing and is adapted to front focus, having the double rack and pinion movement.

The ground glass is fitted with the patent spring actuated movement which keeps it always attached to the camera without being in the way of the operator. The camera may be used for making pictures either vertically or horizontally by means of a plate on the side. The price includes camera, one Eclipse double dry plate holder and canvas carrying case.

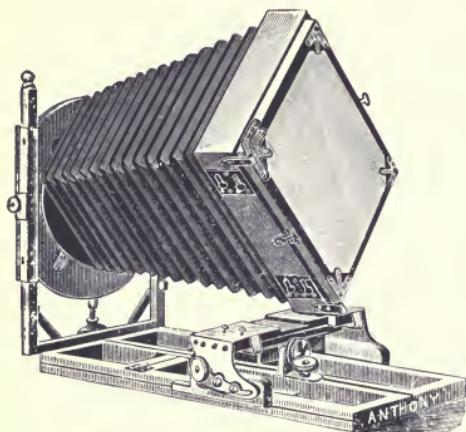
Size of View.	Price.	Extra Double Zephyr Holders, Each.	Extra Double Eclipse Holders, Each.
4 x 5	\$10.50	\$1.20	
4½ x 6½	11.00	1.25	\$2.20
5 x 7	12.00	1.25	2.20
5 x 8	13.50	1.35	2.20
6½ x 8½	16.00	1.60	3.30
8 x 10	22.50	1.85	4.30

Anthony's Patent Novelette View Cameras.



THESE CAMERAS are made in the best possible manner, and of first quality mahogany highly polished; the metal work having the draw file finish, the same as is used on the finest mathematical instruments. They have single and double swing backs, cone bellows and folding beds; are very light, compact and strong. Their peculiar construction admits of making the pictures either vertically or horizon-

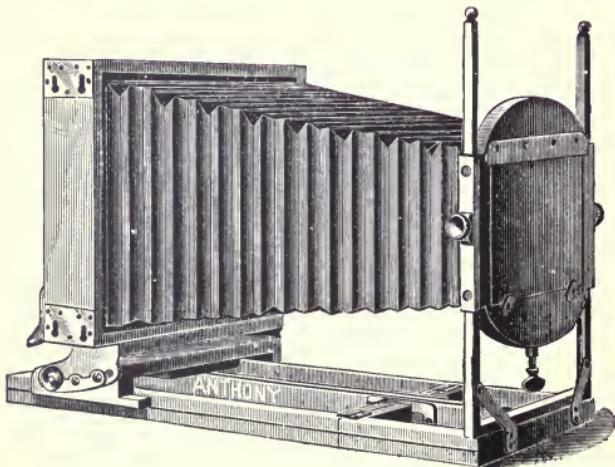
tally with equal ease, the change of position being effected very quickly. The rear part of the camera is separated from the bed by merely pushing it from left to right, the keyhole slots releasing the heads of the screws.



Showing Method of Reversing Camera.

The front end of the bellows being arranged so as to revolve in a light framework which runs on the two hollow upright brass rods, when the rear of the camera is separated from the bed, the entire bellows revolves at the same time with the rear. When this is turned on its side and replaced on the screws the camera is reversed. The whole operation of reversing a 5 x 8 camera requires but two seconds by the watch.

They are made with as long a bellows as possible, the 5 x 8 being about four inches longer than those of the ordinary kind. The ground glass is hinged to the camera.



Several new features have been availed of in the construction of this camera, to wit: In all sizes except 4 x 5 the bed may be instantly rendered rigid, *without the use of screws*, by means of a brace of patent hooks that hold the two sections of the bed with great firmness. In the case of the 4 x 5 size, the bed is fastened with a sliding plate.

The rabbet commonly found on the plate holder is dispensed with, and instead it is placed on the camera, thus saving the otherwise additional weight rendered necessary for twelve such rabbets when made on

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the plate holders (two on each of the six usually carried), and the no inconsiderable item of three-fourths of an inch in bulk. The plate holders are made of hard wood, with metal carriers for the plates, and fitted with all the later improvements.

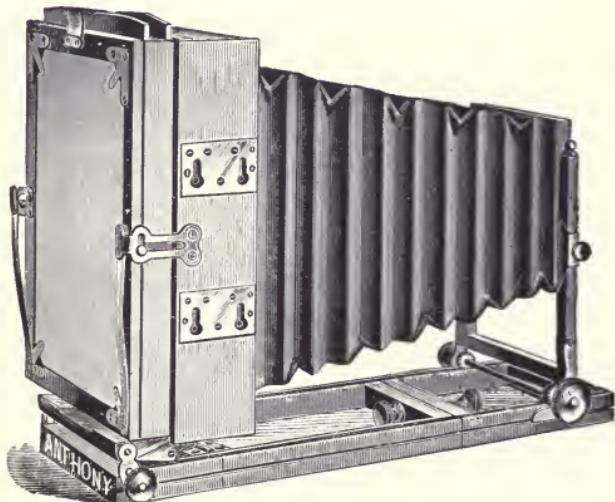
The Novelette occupies less space than any other view camera of the same capacity except our Fairy, and is packed in our telescopic brass bound Canvas Carrying Case.

When packed, the camera should always be put in a vertical position.

	Without Swing.	Single Swing.	Double Swing.
4 x 5, including one Novelette double dry plate holder,	\$12.50	\$15.50	----
4½ x 6½, as above,	----	20.00	----
5 x 7 or 5 x 8, as above,	----	20.00	\$23.00
6½ x 8½, as above,	----	25.00	28.00
8 x 10, "	----	30.00	33.00
10 x 12, "	----	42.00	45.00
11 x 14, "	----	48.00	54.00

With the 4 x 5 size the Zephyr plate holders are used.

Front Focus Novelette Camera.



WITH the exception of the regular Novelette, Fairy and Phantom Cameras, this is the lightest and most compact reversible Camera extant. The body of the Camera is made of same shape as the holder, and is reversed more easily and quickly than any other in the market. It occupies only one-half the space necessary for other reversible Cameras for the same size plate, and is only two-thirds the weight.

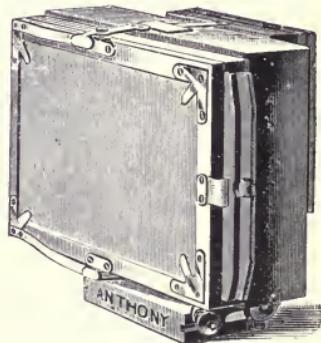
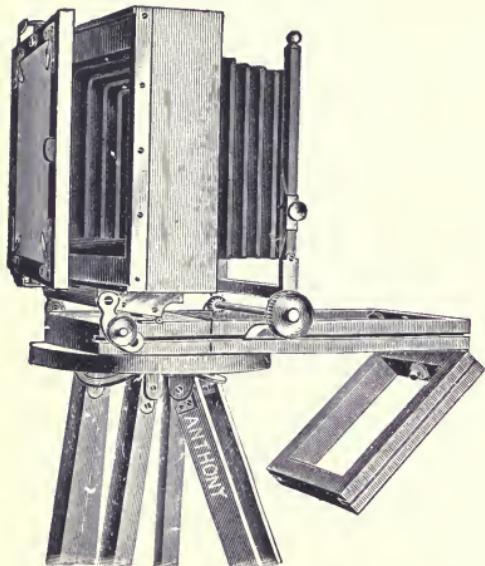
It is made with the back rigid and the front moving forward or

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back by rack and pinion movement for focusing, thus giving the operator access to the ground glass without interference from the bed of the Camera.

It is of best quality mahogany, highly polished, has double rack and pinion the entire length of the bed, and when a lens of short focus is

used the front section of the bed folds underneath, hooking to center section. It has rising front, single or double swing back, and our patent adjustable ground glass, which is



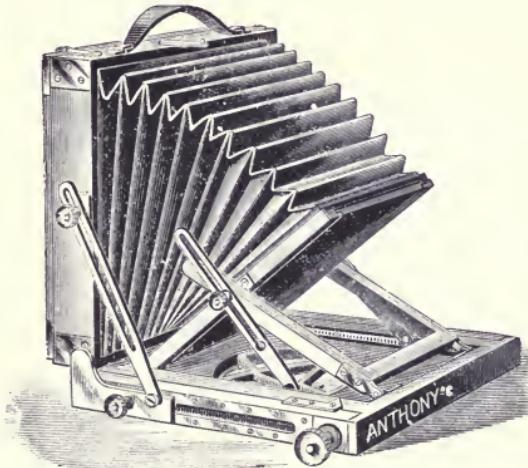
always just where it is wanted. The metal work has the straight line or draw file finish, same as used in the finest mathematical instruments. Each size admits the use of lenses of longest and shortest focus for the size plate to which the Camera is adapted. There are no loose pieces or sections, and in this respect also it differs from all other reversible Cameras of other makes, being complete in itself.

It is fitted with the Eclipse double dry plate holder, which is included in price of Camera quoted below. Also one of our telescopic brass bound Canvas Carrying Cases.

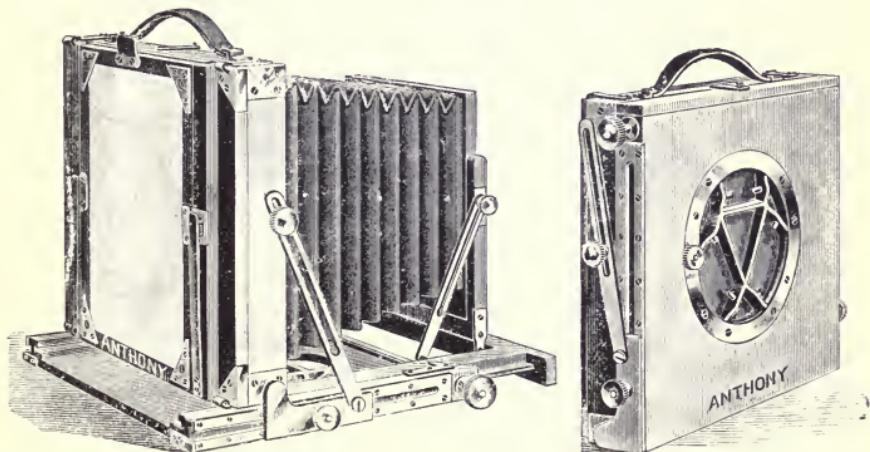
Size	Plain.	Single Swing.	Double Swing.	Extra Double Zephyr Holders, Each.	Extra Double Eclipse Holders, Each.
4 x 5	\$19.00	\$21.00	\$23.50	\$1.20	\$2.00
4½ x 6½	----	22.50	25.00	1.25	2.20
5 x 7	----	23.00	25.50	1.25	2.20
5 x 8	----	24.00	27.00	1.35	2.20
6½ x 8½	----	29.00	32.00	1.60	3.30
8 x 10	----	34.50	37.50	1.85	4.30
10 x 12	----	45.00	50.00	----	6.00
11 x 14	----	55.00	60.00	----	7.00
14 x 17	----	70.00	75.00	----	10.00

The Anthony Compact Camera

IS a recent improvement in folding cameras, similar in effect to the noted English makes. This camera is constructed with reversible back, which makes it almost square when folded, and measures (5 x 8 size) $9\frac{1}{2} \times 9\frac{1}{2} \times 3\frac{1}{8}$ inches. The bed telescopes with rack and pinion, and when closed for carrying, forms the outside of the box. The bellows has an extension (5 x 8 size) of 16 inches, and the telescopic bed makes it



capable of use with very short focus lenses. The tripod top is built into this camera, and is of brass, arranged in such a manner that it revolves freely, thus giving the advantage of changing the field without moving the tripod legs. The ground glass is attached with our patent spring



action, which keeps it out of the operator's way and prevents its becoming detached from the box, and the entire instrument, with ground glass and double holder, weighs only $5\frac{1}{2}$ pounds.

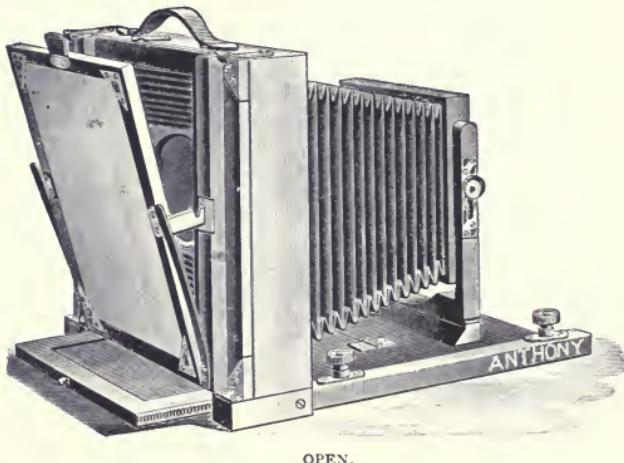
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Prices, with zephyr holder and carrying case:

5 x 7, single swing	\$28.00		6½ x 8½, single swing	\$35.00
5 x 8, " "	....	30.00	|	8 x 10, " "	....	40.00

The Vincent Camera.

IS a new style of camera, constructed on the folding principle, the bed being in two solid sections which telescope, one into the other and fold closely to the frame, forming the back of the closed camera. The



OPEN.

bed being telescopic, renders it suitable for work with lenses of either the longest or shortest focus. When folded it is, as shown in cut, pro-



CLOSED

vided with a carrying strap, and measures complete (for 5 x 8 negative) only 9 x 10 x 3½; other sizes in proportion. These cameras are all made

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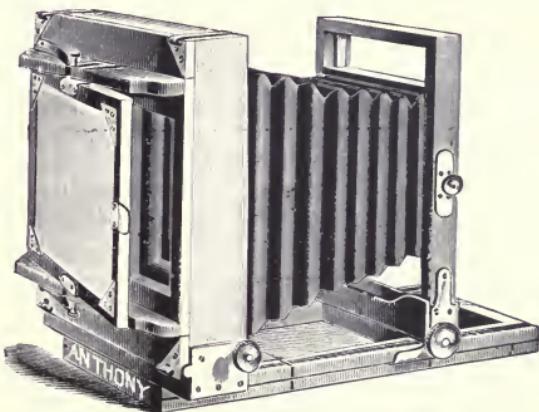
with reversible backs, which render them nearly square in shape and very convenient for carrying. The ground glass is attached to camera by means of our patent springs, and is therefore not liable to get in the way or become detached. The bellows has a capacity, in the 5 x 8 size, of extension to the length of 17 inches, and the whole camera, with ground glass and double holder, weighs only 4 pounds.

Prices, including zephyr holder and carrying case :

5 x 7, single swing	.... \$25.00	6½ x 8½, single swing	.... \$30.00
5 x 8, " "	.... 27.50	8 x 10, " "	.... 35.00

If a Triplex Tripod and five extra double holders are ordered with this camera, we supply a carrying case fitted to contain them all, with compartments for lenses, etc., without charge for case.

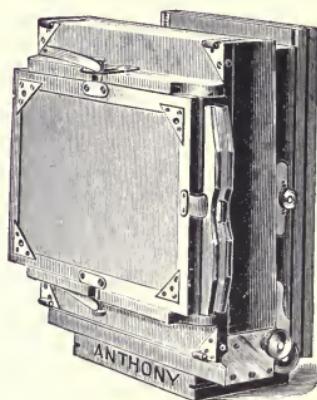
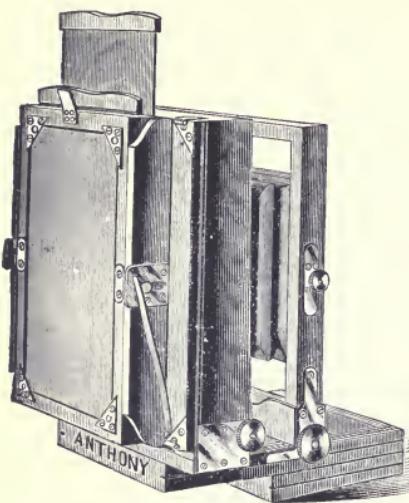
Anthony's "Normandie" Reversible Back Camera.



THIS is the lightest, most compact and easily adjustable, reversible back camera in the market. It is of highly polished mahogany, the metal work having the draw file finish, like that used on the finest mathematical instruments. It is provided with our patent adjustable spring actuated ground glass, always in position and never in the way. The front portion of the bed is provided with hinges, so as to drop or to fold under the camera when in use with wide angle lenses of short focus. It is made rigid by use of our patent clamp hooks, and is provided with

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double rack and pinion movement and front focus. The back of this camera is completely reversible, and the slides can be drawn from bottom



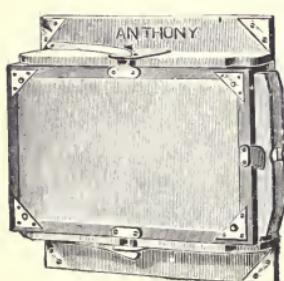
as well as from top or either side. This is an additional safeguard against the admission of light into the holder.

The Normandie is fitted with the Zephyr double dry plate holder up to 8 x 10 inclusive; above that size, with the Eclipse holder. Where extra holders are required, either the Eclipse or Zephyr may be ordered. This camera can be had with either the single or double swing. The price below quoted includes one double holder, and our telescopic brass bound Canvas Carrying Case.

Size.	Single Swing.	Double Swing.	Extra Double Zephyr Holders, Each, to 8-10.	Extra Double Eclipse Holders, Each.
4 x 5	\$20.00	\$22.50	\$1.20	\$2.00
4½ x 6½	22.50	26.00	1.25	2.20
5 x 7	25.00	28.50	1.25	2.20
5 x 8	27.50	31.00	1.35	2.20
6½ x 8½	30.00	33.75	1.60	3.30
8 x 10	35.00	39.00	1.85	4.30
10 x 12	45.00	50.00	----	6.00
11 x 14	55.00	60.00	----	7.00
14 x 17	70.00	75.00	----	10.00

Extra Reversible Backs,

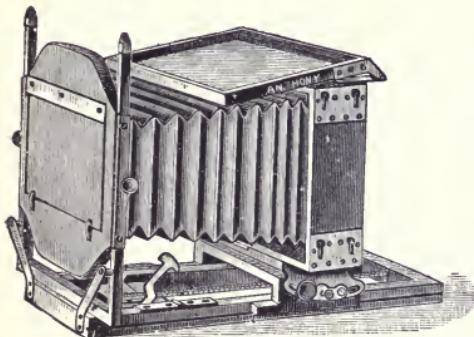
With "Zephyr" Holder, are made in the following sizes to fit "Normandie" Cameras of larger size than plate used :



For Plates.	To fit Camera.	Price.	For Plates.	To fit Camera.	Price.
6½ x 8½	8 x 10	\$7.50	5 x 8	6½ x 8½	\$6.25
5 x 8	8 x 10	6.75	5 x 7	6½ x 8½	6.00
5 x 7	8 x 10	6.50	4½ x 6½	6½ x 8½	6.00
4½ x 6½	8 x 10	6.50			

The Fairy Camera.

IT has long been our desire to place before the public a camera that would at once embrace these most necessary requirements—portability, compactness, and strength, combined with beauty and accuracy of working.



With Stereo Attachments, used Horizontally.

presenting it, we invite attention to the following advantages it possesses over all others.

Strength.—It is put together as rigidly as wood and metal will admit of, and the result is a camera of great strength.

Compactness.—It occupies less space than any other view camera of the same capacity, except the Phantom and Novelette, and the plate holders are made of hardwood, with metal carriers for the plates, and fitted with all the later improvements.

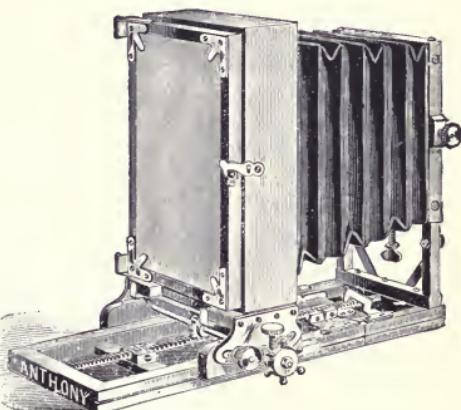
Portability.—When closed for carrying, it occupies very little space and is packed in a neat sole leather carrying case, which is provided with a shoulder strap.

Several new features have been availed of in the construction of this camera.

First.—The bed may be instantly rendered rigid, without the use of screws, by means of a brace of hooks that hold the two sections of the bed with great firmness.

Second.—The rabbet commonly found on the plate holder is dispensed with, and is placed on the camera instead, thus saving the

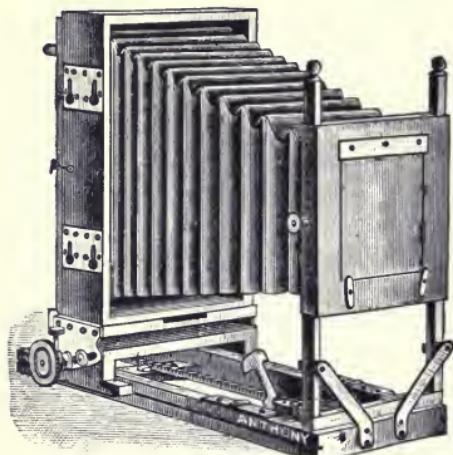
Until the introduction of the camera herein described, the nearest approach to this has been the Novelette Camera, which for a time seemed to be everything that could be desired. But urgent calls for something still better were frequently made, and we therefore devised the Fairy Camera, one of the most attractive and elegant pieces of apparatus of its kind ever offered. In pre-



Without Stereo Attachments, used Vertically.

Catalogue for Amateurs.

additional weight and the no inconsiderable item of bulk, amounting to nearly an inch, where the customary six double holders are carried.



Without Stereo Attachments.

Third.—The camera is focused with a long, continuous metallic rack, cog wheel and pinion, the latter being firmly held in position by a binding screw.

The ground glass springs backward in its frame, like that in the regular Novelette Camera, and is held tightly in position by metallic spring corners. When windy this is a decided advantage.

The Fairy Camera is made in finely polished Circassian walnut, the metal work being nickel-plated, thus giving it a most elegant appearance.

At present it may be had in four sizes, as follows :

Including one Double Dry Plate Holder.

4 x 5, without stereo attachments	-----	\$30.00
4 $\frac{1}{4}$ x 6 $\frac{1}{2}$, " " "	-----	40.00
5 x 8, " " "	-----	42.00
5 x 8, with " " "	-----	42.00
6 $\frac{1}{2}$ x 8 $\frac{1}{2}$, " " "	-----	45.00
8 x 10, " " "	-----	50.00

Including Six Double Dry Plate Holders.

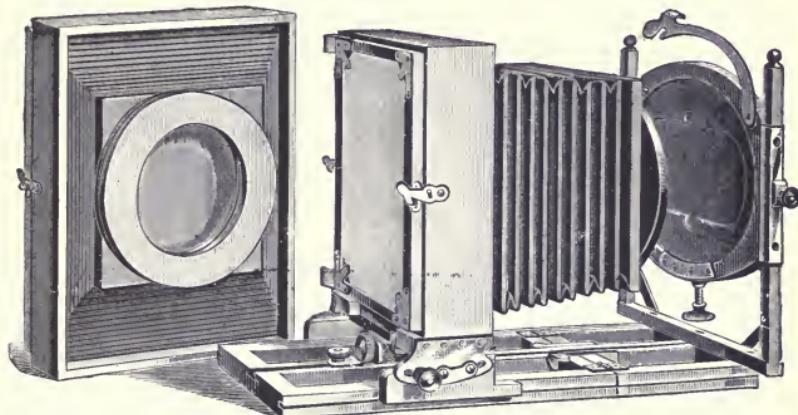
4 x 5, without stereo attachments	-----	\$37.00
4 $\frac{1}{4}$ x 6 $\frac{1}{2}$, " " "	-----	50.00
5 x 8, " " "	-----	54.00
5 x 8, with " " "	-----	54.00
6 $\frac{1}{2}$ x 8 $\frac{1}{2}$, " " "	-----	62.00
8 x 10, " " "	-----	72.00

Naturally those without stereoscopic attachments are still lighter and a trifle more compact than those with, and may be preferred by persons who desire to make single portraits or views only. When six holders are purchased at once with the camera, the extra five holders are put in a leather case with sling, gratis.

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Anthony's Patent Duplex Novelette Camera.

CONSISTING of an 8 x 10 bellows and ground glass, with a 5 x 8 camera, and an 11 x 14 bellows and ground glass, with an 8 x 10 camera, making two cameras in one.

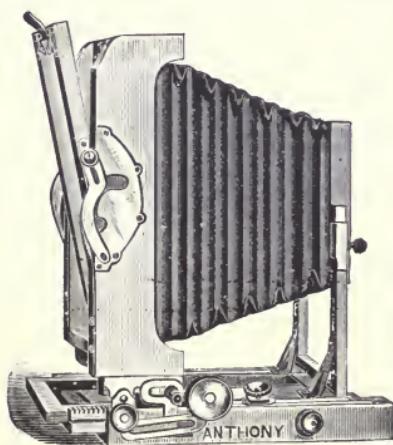


This most ingenious method converts a camera of smaller size into a larger one by the simple adjustment of the back and bellows, which are made to fit the same bed and front board; each part is provided with separate carrying case and double holder and makes when attached to the bed, a *perfect camera of either size* as desired.

Price complete for $\frac{8 \times 10}{5 \times 8}$ with one
Patent Double Dry Plate Holder
for each size, and carrying case for
each, \$36.00

Price complete for $\frac{11 \times 14}{8 \times 10}$ with one
Patent Double Dry Plate Holder
for each size, and carrying case for
each, \$65.00

Anthony's Phantom Camera.



Camera arranged for short focus.

IN issuing this camera, every care has been taken to produce one that would be *compact, light, strong, and easily assembled*. It has no

Catalogue for Amateurs.

complicated parts to get out of order, and the different parts will be found interchangeable.

The camera is reversed in same way as our Novelette and Fairy Camera, by the keyhole slots and screw heads. The front is raised or lowered on the metal standards, but when closing the camera, the top of the front should be fastened on a level with the top of the standards. The camera is always closed with the *plate horizontally*, and hence is always ready for viewing without reversing.

The price includes one patent Phantom double holder and new style telescopic case.

Size.	Longest Focus.	Price.
4 $\frac{1}{2}$ x 6 $\frac{1}{2}$,	16 inches,	\$28.00
5 x 7,	18 "	32.00
5 x 8,	18 "	34.00
6 $\frac{1}{2}$ x 8 $\frac{1}{2}$,	20 "	38.00
8 x 10,	23 "	40.00

Anthony's Telescopic Brass Bound Carrying Cases.

THESE carrying cases are, as indicated by the cut, extremely neat and tasteful in appearance, and are made of the best material, and in the most thorough manner. We now supply these cases with all



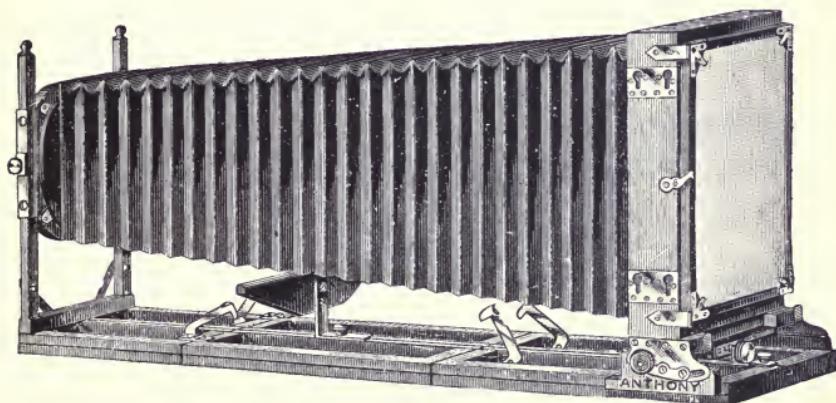
our Novelette, Phantom and Reversible Back Cameras, without extra charge.

Size.	Price.	Size.	Price.
4 x 5,	\$1.60	6 $\frac{1}{2}$ x 8 $\frac{1}{2}$,	\$2.00
4 $\frac{1}{2}$ x 6 $\frac{1}{2}$,	1.75	8 x 10,	3.00
5 x 7,	1.75	10 x 12,	3.50
5 x 8,	1.75	11 x 14,	4.00

Odd sizes made to order at an advance of 50% on above prices.

Anthony's Long Bellows Novelette Camera,

For View, Portrait and Copying Work.

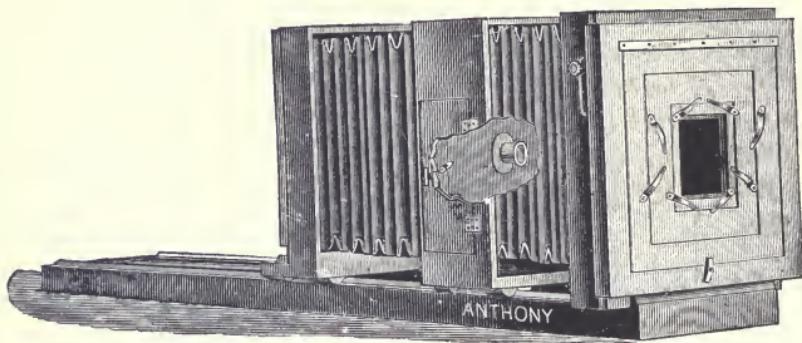


THIS instrument is a most useful camera for view and portrait photography and enlargements combined. It consists of a regular 8 x 10 Novelette Camera, made however with an extra long bellows and arranged with an extension to the bed which gives it a focal length of 32½ inches. As shown in the cut, the bellows is fitted with a movable support, which serves to hold it in position and prevent sagging when in use for enlargements.

The extra bed is held firmly in position by means of dowels and our patent clamp hooks, and may be attached or detached almost instantly. This camera is furnished with carrying case, and its entire weight is only 7 pounds. Price, including one of our new style double Novelette holders and carrying case, \$40.00.

Climax Enlarging, Reducing and Copying Cameras.

THE form of construction of this new camera is made apparent by the illustration here shown. The experienced copyist will not need any such simple directions for use as we append.



An important feature in this camera, that is found in no other, is, that the center-board with lens, can be used in the end of the camera, converting it at once into an extra long copying camera. This will be found very advantageous in enlarging small pictures by one operation.

Size, 4 x 5.....	\$12.00	Size, 11 x 14.....	\$60.00
" 6½ x 8½.....	30.00	" 14 x 17.....	72.00
" 8 x 10.....	35.00	" 17 x 20.....	90.00
" 10 x 12.....	48.00	" 18 x 22.....	100.00
Size, 20 x 24.....			\$110.00

Both the outside kits and the holder kits are fitted with springs, and are interchangeable, thus making possible any transposition of sizes desired.

Holder Kits for 8 x 10—4½ x 5½, 5 x 7, 5 x 8, 6½ x 8½.

" " 10 x 12, same as above, with the addition of 8 x 10.

" " 11 x 14, " " " " 10 x 12.

" " 14 x 17, " " " " 11 x 14.

Outside Kits, the same as above, in all sizes, with the addition of 3½ x 4, 3½ x 4½, and 4 x 5.

DIRECTIONS FOR USE.

To copy a negative in the natural size, place it in the kit on the front of the camera and button it in. Attached to the center frame of the camera is a division upon which, on the side toward the camera front, a lens is mounted. Suppose this to be a quarter-plate portrait lens, the focal length of which we will suppose to be 4 inches; draw back the center frame and the lens twice the focal length of the lens (8 inches); slide the back frame with ground glass the same distance from the center frame. To enlarge with the same lens to eight times the size of the original, the center of the lens must be 4½ inches from the negative, and the ground glass be 36 inches from the center of the lens. To reduce in the same proportion, reverse, and have 36 inches from the center of the lens to the negative, and from the center of lens to ground glass 4½ inches.

These examples will furnish a key to the following table :

Catalogue for Amateurs.

TABLE FOR ENLARGEMENTS.

[Copied from the "British Journal Almanac" for 1892.]

FOCUS OF LENS.	TIMES OF ENLARGEMENT AND REDUCTION.							
	1 In. 2	2 In. 4	3 In. 6	4 In. 10	5 In. 12	6 In. 14	7 In. 16	8 In. 18
$\frac{1}{2}$	5 5	$7\frac{1}{2}$ $3\frac{3}{4}$	10 $3\frac{1}{3}$	$12\frac{1}{2}$ $3\frac{3}{8}$	15 3	$17\frac{1}{2}$ $2\frac{1}{2}$	20 $2\frac{5}{7}$	$22\frac{1}{2}$ $2\frac{1}{3}$
3	6 6	9 $4\frac{1}{2}$	12 4	15 $3\frac{3}{4}$	18 $3\frac{3}{5}$	21 $3\frac{1}{2}$	24 $3\frac{3}{7}$	27 $3\frac{3}{8}$
$3\frac{1}{2}$	7 7	$10\frac{1}{2}$ $5\frac{1}{4}$	14 $4\frac{2}{3}$	$17\frac{1}{2}$ $4\frac{2}{5}$	21 $4\frac{1}{5}$	$24\frac{1}{2}$ $4\frac{1}{3}$	28 4	$31\frac{1}{2}$ $3\frac{1}{6}$
4	8 8	12 6	16 $5\frac{1}{4}$	20 5	24 $4\frac{4}{5}$	28 $4\frac{8}{9}$	32 $4\frac{4}{7}$	36 $4\frac{1}{2}$
$4\frac{1}{2}$	9 9	$13\frac{1}{2}$ $6\frac{1}{4}$	18 6	$22\frac{1}{2}$ $5\frac{5}{8}$	27 $5\frac{8}{5}$	$31\frac{1}{2}$ $5\frac{1}{4}$	36 $5\frac{1}{7}$	$40\frac{1}{2}$ $5\frac{1}{16}$
5	10 10	$15\frac{1}{2}$ $7\frac{1}{8}$	20 $6\frac{8}{9}$	25 $6\frac{1}{4}$	30 6	35 $5\frac{5}{6}$	40 $5\frac{5}{7}$	45 $5\frac{5}{8}$
$5\frac{1}{2}$	11 11	$16\frac{1}{2}$ $8\frac{1}{4}$	22 $7\frac{1}{8}$	$27\frac{1}{2}$ $6\frac{5}{8}$	33 $6\frac{1}{2}$	$38\frac{1}{2}$ $6\frac{5}{12}$	44 $6\frac{8}{7}$	$49\frac{1}{2}$ $6\frac{3}{16}$
6	12 12	18 9	24 8	30 $7\frac{1}{2}$	36 $7\frac{1}{6}$	42 7	48 $6\frac{6}{7}$	54 $6\frac{3}{4}$
7	14 14	21 $10\frac{1}{2}$	28 $9\frac{1}{3}$	35 $8\frac{3}{4}$	42 $8\frac{2}{5}$	49 $8\frac{1}{6}$	56 8	63 $7\frac{7}{8}$
8	16 16	24 12	32 $10\frac{2}{3}$	40 10	48 $9\frac{3}{5}$	56 $9\frac{1}{8}$	64 $9\frac{1}{7}$	72 9
9	18 18	27 $13\frac{1}{2}$	36 12	45 $11\frac{1}{4}$	54 $10\frac{4}{5}$	63 $10\frac{1}{2}$	72 $10\frac{2}{7}$	81 $10\frac{1}{8}$

It is assumed that the photographer knows exactly what the focus of his lens is, and that he is able to measure accurately from its optical center. The use of the table will be seen from the following illustration: A photographer has a *carte* to enlarge to four times its size, and the lens he intends employing is of six inches equivalent focus. He must, therefore, look for 4 on the upper horizontal line, and for 6 in the first vertical column, and carry his eye to where these two join, which will be at $30 - 7\frac{1}{2}$. The greater of these is the distance the sensitive plate must be from the center of the lens, and the lesser, the distance of the picture to be copied. To reduce a picture any given number of times the same method must be followed, but in this case the greater number will represent the distance between the lens and the picture to be copied; the lesser, that between the lens and the sensitive plate. This explanation will be sufficient for every case of enlargement or reduction. If the focus of the lens be 12 inches, as this number is not in the column of focal lengths, look out for 6 in this column and multiply by 2, and so on with any other numbers.

Schmid's Patent Detective Camera.

(PATENTED JAN. 2, 1883.)



The Leather Covered Detective Camera.

THIS CAMERA is focused for objects at various measured distances, and the points are marked upon the index shown in the cut at the side of the box, the pointer of the index serving to act upon gear work to bring the camera in adjustment for any given distance.

After this the ground glass may be entirely dispensed with, as it is then only necessary to estimate the distance of the object to be photographed and move the focusing lever to the mark corresponding to that distance, when the camera will obviously be in focus.

The small lens in the upper left hand corner serves to throw the picture on a piece of ground glass on the top of the camera, thus showing the position of the image on the plate. When the picture appears in proper position on this ground glass, it is only necessary to touch the button on the right of the camera and the exposure of the plate is instantly made, its development being afterward accomplished in the ordinary manner.

The slide is then replaced in the plate holder, which, being reversed, the shutter reset, and the other slide drawn out, everything is ready for the next shot.

Prices, complete, including camera, lens, shutter and one double dry plate holder, are as follows :

$3\frac{1}{2} \times 4\frac{1}{2}$,	.	.	.	.	\$55.00	|	5 x 8,	.	.	.	.	.	\$117.50
4 x 5,	.	.	.	.	60.00	|	6 $\frac{1}{2}$ x 8 $\frac{1}{2}$,	.	.	.	.	.	125.00
4 $\frac{1}{2}$ x 6 $\frac{1}{2}$,	.	.	.	.	90.00	|	8 x 10,	.	.	.	.	.	160.00
3 $\frac{1}{2}$ x 4 $\frac{1}{2}$ and 4 x 5, covered with leather,	.	.	.	.	.	.	.	.	.	.	.	.	\$2.50 extra.

Fitted with Dallmeyer Rapid Rectilinear Lens, prices are :

$3\frac{1}{2} \times 4\frac{1}{2}$,	.	.	.	.	\$77.00	|	5 x 8,	.	.	.	.	.	\$140.00
4 x 5,	.	.	.	.	82.00	|	6 $\frac{1}{2}$ x 8 $\frac{1}{2}$,	.	.	.	.	.	147.50
4 $\frac{1}{2}$ x 6 $\frac{1}{2}$,	.	.	.	.	105.00	|	8 x 10,	.	.	.	.	.	192.00

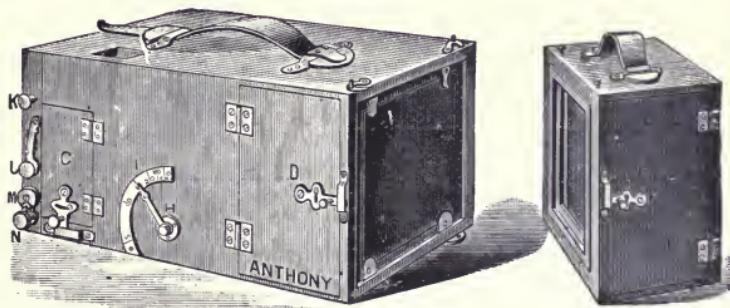
Sizes above 4 x 5 are made to order only.

Additional double dry plate holders, for $3\frac{1}{2} \times 4\frac{1}{2}$ plates, each, . . . \$1.60
" " " " " 4 x 5 " " . . . 1.60

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Anthony's Climax Detective Camera.

Patented Nov. 11, 1884. Sep. 14, 1886. March 22, 1887. March 29, 1887.



THE above cut shows one of our latest Detective Cameras, which is kept in stock in one size only, 4 x 5, larger sizes being made to order. It is so arranged that its working parts are all on the left side of the box, and is so constructed that the shutter may be set, released, and its speed regulated, from the outside, without having to open the box at all.

Lenses of varying focal length may be used and the diaphragms changed without removing the shutter. A removable rear compartment is also made for use with the camera, which is fitted to contain five double holders and which is adapted to take the place of the focusing cloth when the plate holders and rear partitions have been removed, an advantage not possessed by any other style of detective camera. This Camera may be carried and operated in our patent satchel, thus giving it the appearance of an ordinary hand bag.

	Instantaneous Landscape Lens.	R. R. Hemis- pherical Lens.	Dallmeyer R.R. Lens
Climax Detective Mahogany Camera, with 4 x 5 Dry Plate Holder, complete,	A \$25.00	B \$41.00	C \$63.00
Or, if covered with Black Grained Leather and with Metal Work Oxidized Black,	D 29.00	E 45.00	F 67.00
With Removable Rear Compartment of Mahogany, containing 5 extra Double Dry Plate Holders,	G 40.00	H 56.00	I 78.00
Or, covered with Leather as above,	K 45.00	L 61.00	M 83.00

Satchel Climax Detective Cameras will cost, in addition to above:

In Genuine Alligator,	Extra, \$15.00
In Imitation Alligator, Grained Leather,	" 10.00

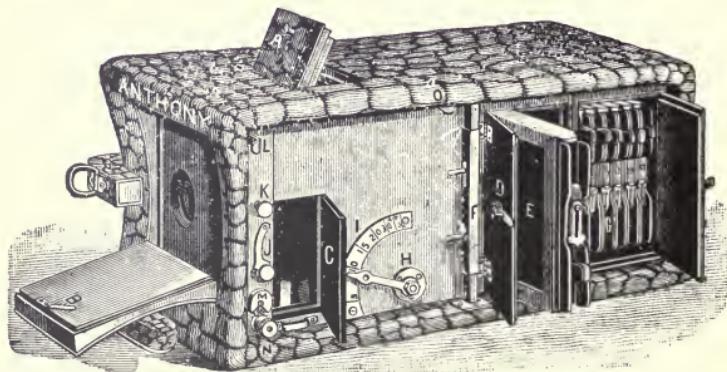
Anthony's Patent Satchel Detective Camera.

IN outward appearance, and to the ordinary observer, this latest modification of the Detective Camera looks exactly like an alligator hand-satchel that is carried by a shoulder-strap at the side of the pedestrian. Upon closer observation, one sees that it consists of an artfully-concealed detective camera, in which all the various movements to secure a picture are situated upon the under side.

For use, the camera is held so that the base of the satchel rests against the body of the operator. By means of a brass pull at the side the shutter is set. A plate in the regular holder is placed in position at the back of the camera, and the slide is drawn ready for exposure. The release of a short catch, exposes the front of the shutter ready for action,

and by raising a small leather-covered lid the little camera obscura, called the finder, on the (now) upper side of the camera, shows the position that the object will occupy on the plate. The slightest touch upon a small brass button releases the shutter, and the exposure is made. Replacing the slide in the plate holder, reversing the holder, and setting the shutter again, leaves the apparatus in readiness for another shot, when the plate holder slide is withdrawn as before.

By releasing a spring bolt on the under side of the case, the camera proper can be removed from its cover, and a tripod screw serves to attach the camera to a tripod for ordinary use.

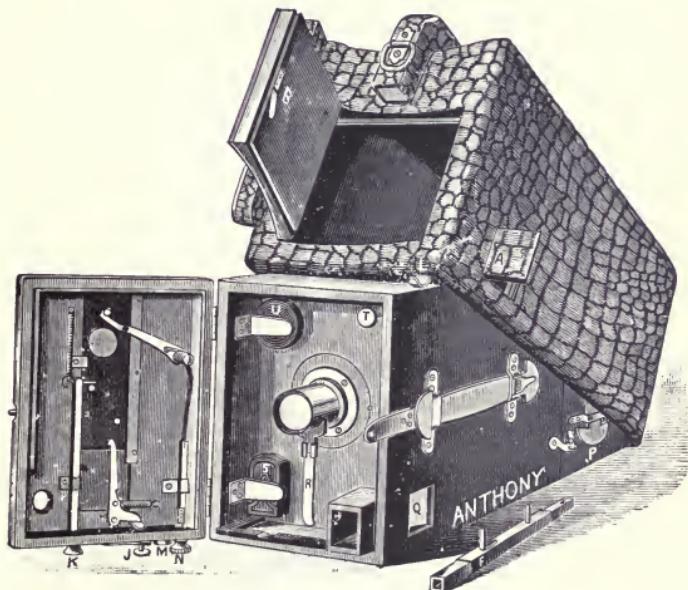


This last form of the detective camera allows the operator to carry with him twelve plates in the interior of the apparatus, and so carefully

Catalogue for Amateurs.

packed away that no light can strike them. It is also furnished with an ingenious attachment by which the speed of the shutter can be regulated to suit the speed of the object, moving with greater or less velocity ; while, by simply releasing a catch, time exposures can be made at the will of the operator. In fact the whole affair is an important achievement in ingenious, compact and light photographic apparatus.

These satchel detective cameras have been frequently operated with success where the use of others less deceptive has been prevented.



Camera showing the detachment of Satchel.

For Plate 4 x 5 inche.,	Fitted with
	Instantaneous R. R. Hemispherical Lens.
	Dallmeyer R. R. Lens.

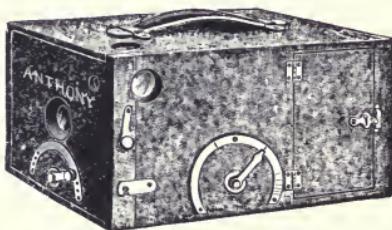
In Imitation Alligator or Grained Leather, with one Patent Double Dry Plate Holder,	N \$35.00	O \$51.00	P \$73.00
In Genuine Alligator, with one Patent Double Dry Plate Holder,	R 40.00	S 56.00	T 78.00
In Imitation Alligator or Grained Leather, with Removable Rear Compartment containing five extra Patent Double Dry Plate Holders (six in all),	U 50.00	V 66.00	W 88.00
In Genuine Alligator, with Removable Rear Compartment containing five extra Patent Double Dry Plate Holders (six in all),	X 55.00	Y 71.00	Z 93.00

Larger sizes made to order.

The P. D. Q. Camera

IS a detective which accomplishes the object for which it was made and bears out its name, the initials only of which, we have adopted as a distinguishing title.

Photography Done Quickly with this camera *is also done well*, and with the least possible effort or loss of time, patience or temper.



The box is adapted to the making of 4 x 5 pictures, either time or instantaneous, which may be taken either vertically or horizontally, and is provided with a finder which may be used for either position. Three patent double holders are supplied with each camera, one being our regular Zephyr double holder for *Dry Plates* and the other two being our new patent double holders for *Films*, in which the popular *Climax* or other celluloid *Cut Films* may be used.

These double film holders are the most compact and durable that have ever been devised, being only three-eighths of an inch thick.

This camera is fitted with a fine combination instantaneous achromatic landscape lens and a shutter of an entirely new design, which by its peculiar mechanism is *always closed*, except at the moment of exposure, the resetting being accomplished by a very simple but ingenious patented device, which requires only the movement of a lever to the right or left, as the case may be.

The manipulation of the shutter is wholly from the outside of the box, and it may be made to work with greater or less rapidity as desired. The mechanism of the entire instrument is most simple and effective.

A new and valuable feature is the rear compartment of the camera, the cover of which may be removed, when there will be found a *ground glass* which is also removable, and which renders the camera

Catalogue for Amateurs.

perfectly suitable for ordinary portrait or landscape photography, where time exposures are required. A tripod screw and cap for lens, which also accompany the P. D. Q., complete its equipment for such work, and the entire camera is neatly covered in black grained leather.

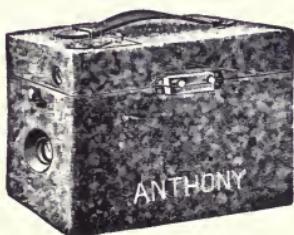
Extra Zephyr Double Holders,	\$1.20 each.
" Film " "	1.50 "

Zephyr holders may also be fitted with our patent metal film kits.

Price, including camera, lens, shutter and *three* patent double holders, \$20.00. The same, in polished walnut, only \$15.00.

Directions for use accompany each camera.

The Simplex Camera



IS a neat and handsome detective camera for pictures $2\frac{1}{2} \times 2\frac{1}{2}$ inches. It is fitted with six double dry plate holders and twelve kits for films. It is provided with finder, and is covered in black grained leather. It may be used for time exposure as well as instantaneous, and occupies only a space of $4 \times 5\frac{1}{2} \times 6\frac{1}{2}$ inches.

PRICE.

With one double holder, either for films or for plates, with kits,	\$10.00
With six " " " " "	14.00

Dr. Krugener's Patent Book Camera.

A Magazine Detective Camera, capable of making 24 exposures without refilling the holders or opening the camera.



As shown by the cut, this camera has the appearance of a neat 16mo volume bound in black leather, and only upon the *closest inspection* would it be suspected that it was anything else.

The size of the book is $2\frac{1}{4} \times 4\frac{1}{2} \times 6\frac{3}{4}$ and it may be carried in the hand or in a neat and tasty leather case, slung over the shoulder like a pair of field glasses. It may be *operated without removal from the case* and is so arranged, that *no part of the camera need be opened till the whole or any portion of the 24 plates are exposed*.

The lens attached to this camera is made expressly for it by one of the best opticians in Europe, and is achromatic and will be found to give *correct perspective, with great sharpness*.

The camera is supplied with 24 plate holders for plates $1\frac{5}{8}$ inches square, which are *carried in a magazine* and which *may be exposed in succession and deposited in a second magazine* in the order of their exposure, by simply pulling out and pushing back a metal rod.

The shutter, which may be set for *either time or instantaneous exposure*, is worked by pulling a button, and the whole mechanism is simple and effective in the extreme.

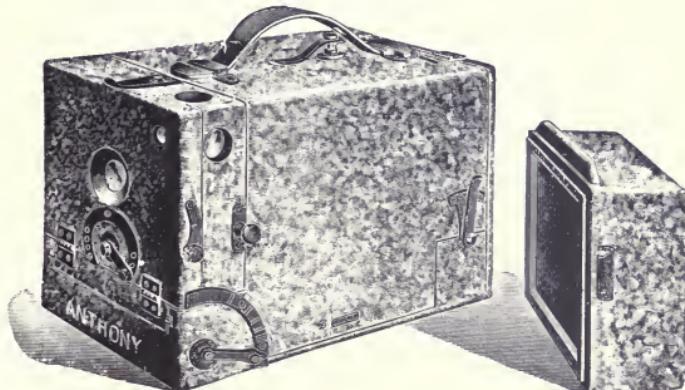
This little camera is the most perfect and ingenious instrument of its kind that has been put upon the market.

PRICE.

Camera, with 24 holders,	.	.	.	.	.	.	.	.	\$15.00
Dry Plates, package of 50,	.	.	.	.	.	.	.	.	1.00
Papier-Maché Trays, each,	.	.	.	.	.	.	.	.	.35
10 Plate Lifters,	.	.	.	.	.	.	.	.	.50
Leather Carrying Case and Strap,	.	.	.	.	.	.	.	.	1.75

Anthony's Magazine Camera

IS an entirely new magazine camera, in which twelve or twenty-four exposures may be made without drawing a slide or inserting a plate holder, and twelve or twenty-four new plates or films may then be inserted and exposed without going into a dark room.



It is adapted to 4×5 size, either vertical or horizontal, and is so arranged that the plates or films stored in the camera are exposed one at a time, as desired, and then by the simple pressure of a spring, each plate, after exposure, is dropped into a reservoir at bottom of the camera, where it may remain until the whole are exposed or be removed earlier for development, as desired. The plates may be changed and the camera refilled in broad daylight, the process being simplicity itself. Accompanying the camera is a magazine which is filled in the dark room, and which holds, like the camera, either 12 plates or 24 films. When it is desired to refill the camera, this magazine is fitted on the back of camera in the same way that a ground glass is attached to an ordinary box, and by drawing two dark slides, one from the camera and the other from the magazine, the entire lot of fresh plates are deposited in position to be exposed in rotation; the slide is then returned to back of camera and the empty magazine detached, after which it is secured at the bottom of the camera and slide drawn therefrom, when the exposed plates will drop into the magazine. The slides are now both replaced and the magazine, full of exposed plates, detached.

The size of this camera is only $10\frac{1}{4} \times 7\frac{1}{2} \times 6\frac{1}{4}$, while the magazine measures only $6\frac{1}{4} \times 6 \times 2\frac{1}{2}$. It is fitted, as above stated, to carry either glass or films, or both, the turning of two metal catches adapting it to the different thicknesses of either, and owing to this difference in thickness 24 films may be carried, as against 12 glass plates.

This camera is covered in black leather, with black metal trimmings, and is unsurpassed for neatness of appearance. It is provided with a double achromatic lens, and has the advantage that it may be focused from the outside, by movement of a lever on the side of the box, it is provided with a finder which is adjustable for horizontal or upright views, and has a shutter, simple of construction but thoroughly practicable, which may be used for either time or instantaneous exposures.

Price.....	\$45.00
Extra Magazines	3.00 each.
Extra Kits.....	1.00 per doz.

Lilliput Camera.

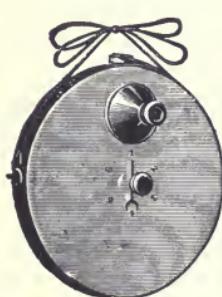


THIS is the handiest, lightest and most easily handled detective camera ever put upon the market. In outward appearance it resembles a small hand bag, being made of fine sole leather and fitted with a sling strap for convenience in carrying. It occupies a space only $4 \times 4 \times 6$ inches, and notwithstanding its small bulk, carries six double holders, which may be filled with glass plates or films and which are emptied and refilled by the operator himself precisely as if in a regular camera.

The lens covers an angle of about 60° , and is adjusted to universal focus, being therefore always in readiness for use. The camera is worked without taking from the case, and all mechanism is entirely concealed from view. The size of picture obtainable is $2\frac{1}{2}$ inches square, and they may be either time or instantaneous exposures at will of the operator, the shutter having an adjustment for either the one or the other. Price, including carrying case and strap, camera, lens, six double plate holders, twelve kits for same, nine dozen celluloid films and ruby lantern, \$25.00.



The Concealed Vest Camera.



THIS MINUTE CAMERA is made to be suspended from the neck of the operator and worn *under* both coat and vest with the lens protruding through the buttonhole of the vest.

It is made of metal, nickel plated, and is provided with circular plate for six exposures without changing.

The camera is 6 inches in diameter, $\frac{3}{4}$ inch in thickness, and weighs only $\frac{1}{2}$ lb. The lens is of universal focus and concealment almost perfect.

Fine nickel-plated camera, in handsome box, with 6 plates, for 36 pictures, for No. 1, or 24 large pictures for Camera No. 2.

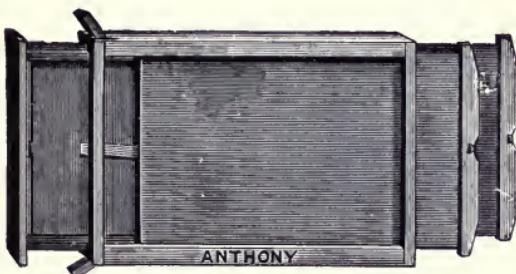
Vest, showing Camera in position.



Nickel or Oxidized Camera, No. 1 (size of picture, $1\frac{3}{4}$ in.),	each, \$10.00
Magic Lantern Size Camera, No. 2 (size of picture, $2\frac{1}{2}$ in.),	each, 15.00
Plates for No. 1 size,	per doz., 1.20
" " 2 "	" 1.80

Every Camera guaranteed perfect.

Anthony's Patent Eclipse and Novelette Double Dry Plate Holders or Shields.



THESE are the most compact plate holders in the market, the rabbet commonly found on the plate holder being dispensed with and placed on the camera instead, thus saving the additional weight of twelve such rabbets when made on the plate holder (two on each of the six holders usually carried), and the item of three-fourths of an inch in bulk.

Their outside dimensions, exclusive of slide caps as given below, will be found to be smaller than any other double dry plate holders made.

The construction of our patent perfect double holders is such that several sizes of plates can be used without the aid of inside kits, for instance, in a 5×8 holder, any plate measuring five inches one way and not over eight inches the other, can be used, 4×5 , 5×7 , etc. This is very convenient where experiments regarding time are being made, and narrow strips being tried, in place of using an entire plate, or different sizes of plate with inside dry plate kits.

Thin wooden frames can be supplied for holding still smaller sizes, if desired, so that the amateur can experiment with plates smaller than the extreme limit of his holders, and at much less expense. (See Inside Dry Plate Kits.) They are also much more readily managed in the ruby light than any other style.

Outside Dimensions of Plate Holders.	For Plates.	Price.
$\frac{3}{4} \times 5\frac{1}{2} \times 7\frac{1}{2}$	. . . $4\frac{1}{2} \times 6\frac{1}{2}$	each, \$2.20
$\frac{3}{4} \times 6 \times 8$	. . . . 5×7	" 2.20
$\frac{3}{4} \times 6 \times 9$	. . . . 5×8	" 2.20
$\frac{3}{4} \times 7\frac{1}{2} \times 10$	. . . . $6\frac{1}{2} \times 8\frac{1}{2}$	" 3.30
$\frac{3}{4} \times 9 \times 11\frac{1}{2}$	. . . . 8×10	" 4.30
$1 \times 11\frac{1}{2} \times 13\frac{1}{2}$	. . . . 10×12	" 6.00
$1 \times 12\frac{1}{2} \times 15\frac{1}{2}$	. . . . 11×14	" 7.00
$1\frac{1}{2} \times 16 \times 19$	. . . . 14×17	" 10.00

The Novelette and Eclipse Holders are of the same dimensions and style, except that the former have pins in the edges by which they are held fast to the camera by hooks, whereas the Eclipse Holders are used with cameras having springs in place of hooks.

Fairy Plate Holders.

These are the same style plate holders as the Novelette but are fitted with hard rubber slides.

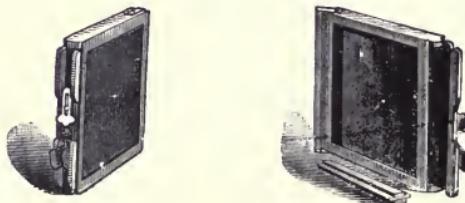
$4\frac{1}{2} \times 6\frac{1}{2}$ each,	.	.	.	.	.	.	.	.	.	.	.	\$2.40
5×8 "	.	.	.	.	.	.	.	.	.	.	.	2.50
$6\frac{1}{2} \times 8\frac{1}{2}$ "	.	.	.	.	.	.	.	.	.	.	.	3.70
8×10 "	.	.	.	.	.	.	.	.	.	.	.	4.80

Lilliput and Simplex Double Holders.

These are the same style holders as the Zephyr but are fitted with hard rubber slides.

$2\frac{1}{2} \times 2\frac{1}{2}$, each,	\$1.10
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Anthony's Patent Detective Double Dry Plate Holders.



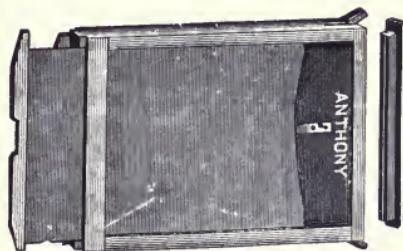
THESE are unquestionably the lightest and most convenient holders of their size in the market. The plates are placed in and removed from the holder at one of the ends, which is opened by pressing aside the metal band that secures the wooden cover. (See right hand cut.) These holders have hard rubber slides, and are provided with an ingenious device for holding slides in place and preventing their being accidentally drawn out when the holder contains plates.

These holders are used with our Detective, 4×5 Novelette, Bicycle and Bijou Cameras. They are also supplied with our Manhattan No. 1 and O. N. A. No. 1 B equipments. They are made in the following sizes only:

$3\frac{1}{2} \times 4\frac{1}{4}$, each,	\$1.60		4×5 , each,	\$1.60
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Catalogue for Amateurs.

Anthony's Patent Zephyr Double Dry Plate Holders.



ARE similar to the Detective Holders, but with paper slide. They can be used with any of our Amateur Outfits, and when fitted with pins at the sides, can be attached to our Novelette Camera.

4 x 5,	\$1.20	5 x 8,	\$1.35
4½ x 6½,	1.25	6½ x 8½,	1.60
5 x 7,	1.25	8 x 10,	1.85

Phantom Holders

Are the same as Zephyr Holders, but with hard rubber slides.

4½ x 6½, each,	\$1.70	5 x 8, each,	\$1.80
5 x 7, "	1.75	6½ x 8½, "	2.20
8 x 10, each,		\$2.65	

Film Holders.



THESSE HOLDERS are for use with our Climax Negative Films, and for compactness, lightness and practicability are unequaled. They are made in the same style as our Patent Novelette Holders for glass plates; but, being adapted to the use of the Climax Films,

are consequently very much lighter than they could be made to carry a heavier plate.

4 x 5, each,	. . . . .	. . . . .	. . . . .	\$1.50
4½ x 6½, "	. . . . .	. . . . .	. . . . .	2.20
5 x 8, "	. . . . .	. . . . .	. . . . .	2.20
6½ x 8½, "	. . . . .	. . . . .	. . . . .	3.30
8 x 10, "	. . . . .	. . . . .	. . . . .	4.30
10 x 12, "	. . . . .	. . . . .	. . . . .	6.00
11 x 14, "	. . . . .	. . . . .	. . . . .	7.00

Anthony's "Victor" Double Dry Plate Holders

ARE constructed to be filled and plates removed from the front, on withdrawal of slide in dark room, and the plates are held firmly in position, when the slide is drawn in the camera, by the spring and two grooved shoulders at ends of the holder. An ingenious safety latch



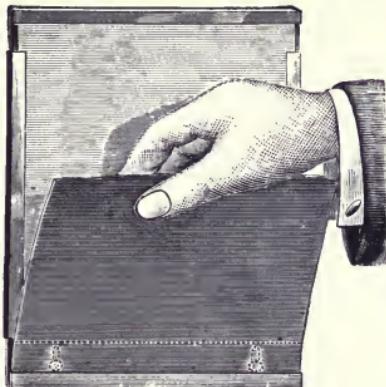
is attached to this holder, which renders it impossible to draw more than one slide at a time, thus preventing many accidents. These holders fit all view cameras of our manufacture that have our patent spring actuated ground glass. Our regular dry plate kits can be used in this holder, which is as light as the lightest weight holder made.

PRICES:

4 $\frac{1}{4}$ x 6 $\frac{1}{2}$ -----	\$1.25
5 x 7 -----	1.25
5 x 8 -----	1.35
6 $\frac{1}{2}$ x 8 $\frac{1}{2}$ -----	1.60
8 x 10 -----	1.85
10 x 12 -----	3.00
11 x 14 -----	4.50

Catalogue for Amateurs.

Barnett's Patent Universal Film Carrier.



THE Universal Film Carrier will carry Films perfectly flat; fit any holder now made; and by means of a movable end, easily adjust any unevenness of edge, and is perfect for the use intended.

DIRECTIONS FOR FILLING THE UNIVERSAL CARRIER.

First.—Slide the Films into grooves on side of carrier to within a short distance of end.

Second.—Place a piece of paper over end of plate into brass groove, when the Film can be readily pushed in place.

Third.—Extend the other end of carrier by pulling out the slide. Use same means as in adjusting at other end, when the slide can be closed. There is no necessity of the fingers touching the Film in placing in carrier.

Sizes.	Price per Doz.	Sizes.	Price per Doz.
3½ x 4½,	\$2.00	5 x 7,	\$2.75
4 x 5,	2.00	5 x 8,	2.75
4½ x 5½,	2.25	6½ x 8½,	3.25
4½ x 6½,	2.50	8 x 10,	4.00

Inside Dry Plate Kits.



THIN WOODEN FRAMES to hold small sized plates, fitting in any ordinary plate holder, thus enabling the amateur who has a large camera, to use small plates as well as large ones.

To fit Holders.	Each.	To fit Holders.	Each.
4 x 5—3½ x 4½,	\$0.25	8 x 10—4½ x 6½, 5 x 7, 5 x 8, 6½ x 8½,	\$0.35
5 x 8—3½ x 4½, 4 x 5, 4½ x 6½,	30	8½,	55
6½ x 8½—4 x 5, 5 x 8, 4½ x 6½, 5 x 7,	30	10 x 12—8 x 10,	60
		11 x 14—8 x 10, 10 x 12,	75
		14 x 17—11 x 14,	

Extra Parts of Apparatus.

Catalogue for Amateurs.

Catalogue for Amateurs.

Dry Plates.

AS the manufacture of dry plates has advanced and the many plate makers have come to more uniform manipulations in the working of the process, the plates produced have gradually been improving in all the qualities essential to good results, until it has become no easy matter to select any one make as pre-eminently the best for any and all kinds of work, and the operator is at liberty to make his own selection from the successful brands which are recognized by all as being reliable, or to experiment for himself in new directions. We supply at manufacturers' regular list prices, all regular brands such as Stanley, Carbutt, Cramer, Seed, Harvard, Phenix, Eagle, etc., as follows:

$3\frac{1}{2} \times 4\frac{1}{4}$,	.	.	.	.	Per doz., \$0.45	8×10,	.	.	.	.	Per doz., \$2.40
4×5,	.	.	.	.	" 65	10×12,	.	.	.	.	" 3.80
$4\frac{1}{2} \times 5\frac{1}{2}$,	.	.	.	.	" 75	11×14,	.	.	.	.	" 5.00
$4\frac{1}{2} \times 6\frac{1}{2}$,	.	.	.	.	" 90	14×17,	.	.	.	.	" 9.00
$4\frac{1}{4} \times 6\frac{1}{4}$,	.	.	.	.	" 1.00	16×20,	.	.	.	.	" 12.50
5×7,	.	.	.	.	" 1.10	17×20,	.	.	.	.	" 13.00
5×8,	.	.	.	.	" 1.25	18×22,	.	.	.	.	" 15.50
$6\frac{1}{2} \times 8\frac{1}{2}$,	.	.	.	.	" 1.65	20×24,	.	.	.	.	" 18.50

Special sizes to order.

Anthony's Climax Negative Films.

(Transparent and Flexible.)

FOR PORTRAITS, landscapes and drop shutter work. Weight and space reduced to a minimum. 14 doz. films weigh less than 1 doz. glass plates. They are developed in the same manner as dry plates. They reduce halation and can be printed from either side of film.

Anthony's Climax Negative Films are made upon a substance of recent discovery which is admirably adapted to the manufacture of a perfect negative film, combining transparency, strength and toughness of composition, which renders them capable of being made so thin as almost to eliminate the question of weight and bulk in carrying. They are made with a fine mat surface which reduces halation, and are perfectly impervious to water. Can be sent by mail without danger of breakage.

$3\frac{1}{2} \times 4\frac{1}{4}$,	.	.	.	.	Per doz., \$0.65	5×7,	.	.	.	.	Per doz., \$1.65
4×5,	.	.	.	.	" 95	$5\frac{1}{2} \times 7$,	.	.	.	.	" 1.75
$4\frac{1}{2} \times 5\frac{1}{2}$,	.	.	.	.	" 1.12	5×8,	.	.	.	.	" 1.80
$4\frac{1}{2} \times 6\frac{1}{2}$,	.	.	.	.	" 1.30	$6\frac{1}{2} \times 8\frac{1}{2}$,	.	.	.	.	" 2.50
$4\frac{3}{4} \times 6\frac{1}{2}$,	.	.	.	.	" 1.40	8×10,	.	.	.	.	" 3.60

Postage extra.

A trial of these films will demonstrate their practical value.

Carbutt's Flexible Negative Films.

For Portraits, Landscapes, Interiors and Instantaneous Views.

NO extra processes are necessary. But Films are exposed, developed, fixed, washed, dried, and printed from, the same as Dry Plates; and being but $\frac{1}{100}$ of an inch in thickness, can be printed from either side.

These Flexible Films are not made on sheet gelatine, or of paper made translucent, but on a transparent material perfectly impervious to water, unbreakable, and with a fine matt surface that renders them especially desirable for Interior Views and Landscapes, as halation is thereby greatly reduced.

They can be used in regular plate-holders for Studio or Landscape work, or in the special film-holders now supplied by the several manufacturers of photographic apparatus.

Price per Dozen. Coated with our "Special," "Eclipse" and "B" Landscape Emulsions.

$3\frac{1}{2} \times 4\frac{1}{2}$	.	.	.	.	.	\$0.65	|	5 x 7	.	.	.	.	.	\$1.65
4 x 5	.	.	.	.	.	.95	|	5 $\frac{1}{2}$ x 7	.	.	.	.	.	1.75
4 $\frac{1}{2}$ x 5 $\frac{1}{2}$	.	.	.	.	.	1.12	|	5 x 8	.	.	.	.	.	1.80
4 $\frac{1}{2}$ x 6 $\frac{1}{2}$	.	.	.	.	.	1.30	|	6 $\frac{1}{2}$ x 8 $\frac{1}{2}$	.	.	.	.	.	2.50
4 $\frac{1}{2}$ x 6 $\frac{1}{2}$	.	.	.	.	.	1.40	|	8 x 10	.	.	.	.	.	3.60

They can be sent by mail without fear of breakage. When ordering from your dealer, add 5 per cent. to cost of films to cover postage.

Vogel's Eoside of Silver Plates

ARE the most sensitive orthochromatic plates known, and are superior to all other orthochromatic or color-sensitive plates, from the fact that their sensitiveness for yellow rays, as proven by spectrum, is about three times as great as that of ordinary eosine plates already in the market. Therefore these plates require no yellow screen in landscape work. They give the different scales of green foliage, the clouds, the distance, in spite of fog, far better than an ordinary plate, and have the same sensitiveness as the plain emulsion they are made from, while other ordinary orthochromatic plates are generally less sensitive than ordinary emulsion plates. They are, therefore, suitable also for instantaneous work, and will be found invaluable in portrait work, for yellow colored faces, colored costumes, etc.

PRICES.

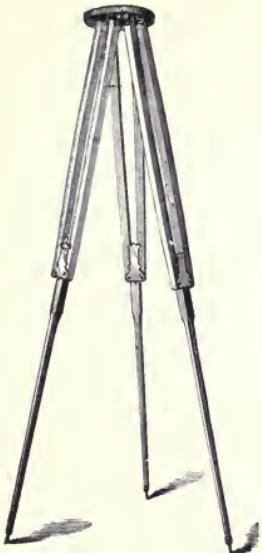
[While these plates were formerly held at a much higher price, their increased demand has rendered possible their production in large quantities, and they have been reduced to same prices as ordinary dry plates, as follows:]

$3\frac{1}{2} \times 4\frac{1}{2}$ -----	Per doz., \$0.45	|	5 x 7 -----	Per doz., \$1.10	|	11 x 14-----	Per doz., \$5.00
4 x 5 -----	" .65	|	5 x 8 -----	" 1.25	|	14 x 17-----	" 9.00
4 $\frac{1}{2}$ x 5 $\frac{1}{2}$ -----	" .75	|	6 $\frac{1}{2}$ x 8 $\frac{1}{2}$ -----	" 1.65	|	16 x 20-----	" 12.50
4 $\frac{1}{2}$ x 6 $\frac{1}{2}$ -----	" .90	|	8 x 10-----	" 2.40	|	17 x 20-----	" 13.00
4 $\frac{1}{2}$ x 6 $\frac{1}{2}$ -----	" 1.00	|	10 x 12-----	" 3.80	|	18 x 22-----	" 15.50
20 x 24-----				Per doz., \$18.50			
Special sizes to order.							

Catalogue for Amateurs.

Jointed Tripods.

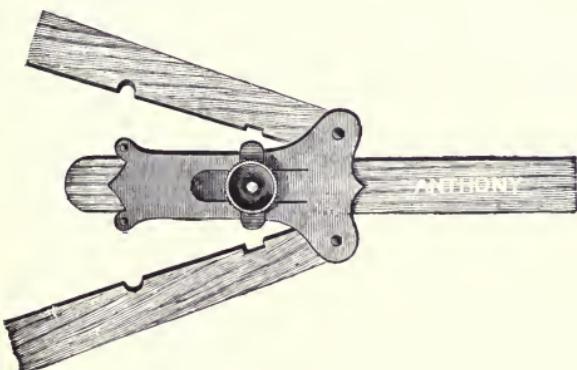
- No. 1, Anthony's Improved Folding Tripod, 6-in. circular top, \$2.25.
No. 2, Anthony's Improved Folding Tripod, 8-in. circular top, \$2.25.
No. 3, Jointed Tripod, folding iron top, adapted to large cameras, \$4.50.
No. 4, Telescopic Legs, adapted to Stereoscopic and 8 x 10 sizes, \$3.50
No. 5, Telescopic Legs, adapted to 11 x 14 size, \$3.75.
No. 6, Large Tripod, with unjointed legs and 12-inch top sufficiently strong for the heaviest view cameras, \$6.00.
Nos. 1, 2, 4 and 5 have patent adjustment for preventing accidental displacement of legs from top.



Anthony's Improved Nos. 1 and 2.



Anthony's Patent Telescopic Folding, Nos. 4 and 5.



Showing Telescopic Folding Joint of Nos. 4 and 5.



Showing one leg of Telescopic Folding Tripod folded.

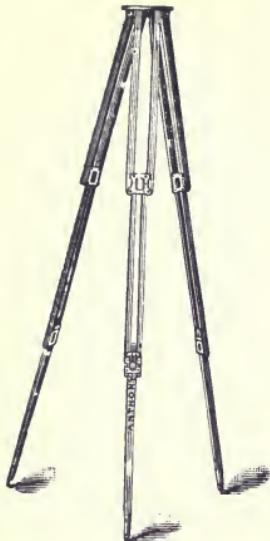


The Climax Tripod.

As shown by the cut, this tripod folds in three joints, making it much more convenient to carry than the ordinary two jointed folding tripod. It resembles the Triplex Tripod in length, but is not telescopic. The legs may be left permanently in the top when folded, and the other ends being fastened by a strap, a leather handle on one of the legs forms a convenient method of carrying it.

Price,	\$3.50
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Anthony's Patent Triplex
Tripod.

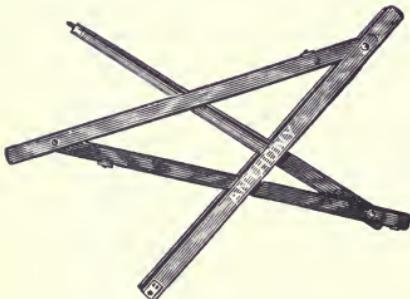


THIS is the finest finished in the market and perfectly rigid, combining both the folding and telescopic, besides which it occupies little space, and for transportation can be packed with clothing in a large grip sack. It is made of cherry throughout, and has the patent springs on under side of top, by which it is impossible for the legs to become unfastened accidentally. When the leg is fully extended, it is held automatically by a spring, saving necessity of using thumb screw for clamping same.

Price, \$4.00

The Fairy Tripod.

(Patented February 23d, 1886.)



Showing one leg of Fairy Tripod partly folded.



Showing one leg of Fairy Tripod folded.



Showing Fairy Tripod set up ready for use.

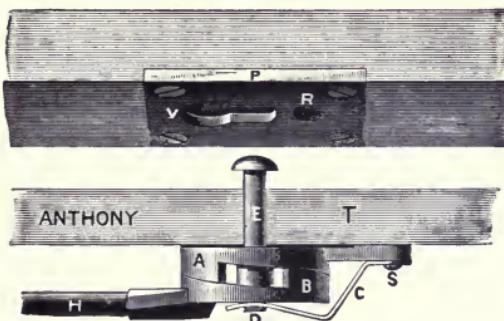
OUR aim has long been to make all apparatus connected with outdoor photography as light and compact as is consistent with strength and durability. Until now the tripod has successfully resisted all efforts in that direction. But at last we can offer to our customers a tripod which is a marvel of lightness, compactness and rigidity, and which can be readily carried in an ordinary hand bag. When folded it is only 16 inches long and weighs but 1 lb. 15 oz.

Price, each,	\$5.00
Fine sole leather carrying cases for legs of above tripod, with shoulder straps, each,	2.50

Catalogue for Amateurs.

Clamp Tripod Top.

(Patented.)



WE give a sectional view of our Clamp Tripod Top, which dispenses entirely with the tripod screw, and by means of which the camera is instantly clamped to the tripod. This attachment entirely does away with the annoying delays and difficulties of the old method and is a most essential part of a complete photographic equipment.

We have these Clamp Tripod Tops to fit our Triplex, Telescopic, Climax and Folding Tripods.

Price of top and patent clamp and plate for camera bed, \$1.40.

For complete tripod, fitted with above and plate, add 40 cents to price of tripod.

The Umbrella Tripod

Is, as shown by the cuts, an ingeniously arranged tripod which, when not in use, folds to resemble very closely an umbrella.

When open it is firm and rigid.

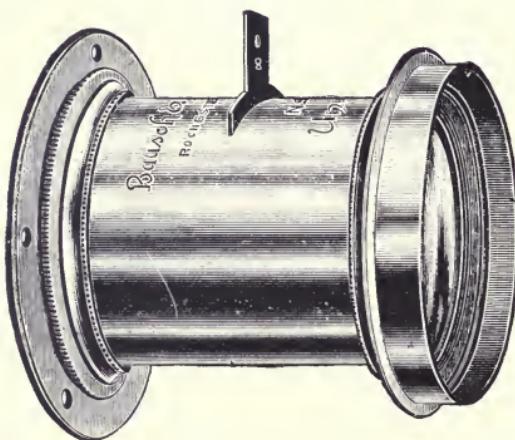
Size, closed, is only 2 inches in diameter.

Price.....\$5.00



Rapid Universal Lenses.

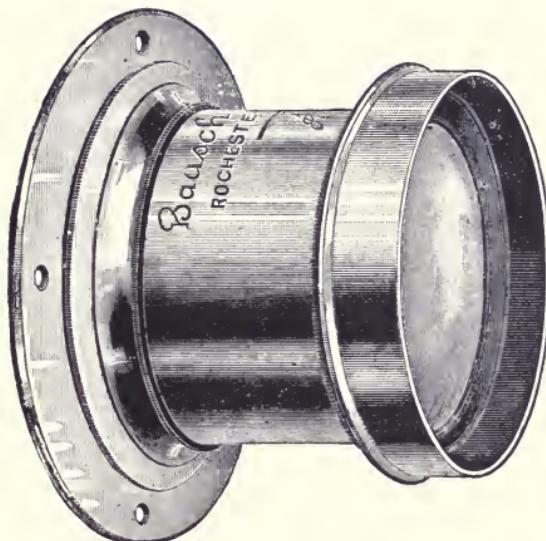
THESE lenses are of the rectilinear, compound type, and are intended for studio and general outdoor photography. Every lens is supplied with morocco cap and case and eight stops.



Nos.	Large Stop Covers.	Medium Stop Covers.	Diameter of Lenses.	Back Focus.	Equivalent Focus.	Largest Stop.	Price.	Telegraphic Code.
4 $\frac{1}{4}$	3 $\frac{1}{4}$ x 4 $\frac{1}{4}$	4 x 5	7 $\frac{7}{8}$ in.	4 $\frac{3}{4}$ in.	5 $\frac{1}{4}$ in.	f 6.7	\$24.00	Ucubis.
5	4 x 5	5 x 8	1 $\frac{1}{2}$ in.	5 $\frac{3}{4}$ in.	6 $\frac{1}{4}$ in.	f 7.0	28.00	Umbria.
8	5 x 8	6 $\frac{1}{2}$ x 8 $\frac{1}{2}$	1 $\frac{3}{4}$ in.	7 $\frac{3}{4}$ in.	8 $\frac{1}{4}$ in.	f 7.0	34.00	Unca.
8 $\frac{1}{2}$	6 $\frac{1}{2}$ x 8 $\frac{1}{2}$	8 x 10	1 $\frac{1}{2}$ in.	10 $\frac{3}{4}$ in.	11 $\frac{1}{4}$ in.	f 7.5	42.00	Unelli.
10	8 x 10	10 x 12	1 $\frac{7}{8}$ in.	12 $\frac{1}{4}$ in.	13 in.	f 7.5	58.00	Upis.
12	10 x 12	12 x 15	2 $\frac{1}{2}$ in.	15 in.	16 in.	f 8.4	73.00	Uraca.
15	12 x 15	16 x 18	2 $\frac{3}{4}$ in.	18 in.	19 $\frac{1}{4}$ in.	f 8.8	88.00	Uxantis.
18	16 x 18	20 x 22	3 $\frac{1}{4}$ in.	22 $\frac{1}{4}$ in.	23 $\frac{3}{4}$ in.	f 9.0	145.00	Utica.
22	20 x 22	21 x 25	4 $\frac{1}{4}$ in.	28 in.	30 in.	f 9.0	195.00	Uzita.

Alvan G. Clark Lenses.

THESE lenses are of such quality and capacity that they mark an epoch in the construction of photographic objectives. They are the invention of Alvan G. Clark, the celebrated manufacturer of telescopes, and are of a construction dissimilar from anything heretofore followed, and are as striking in their results as Mr. Clark's success in the telescope objectives has been.



(Full Size, $6\frac{1}{2} \times 8\frac{1}{2}$, A. G. C.)

These lenses may be used with equal facility in three directions :

1. To all work to which the rapid rectilinear type may be adapted, when they give an angle of about 60 degrees, and in which capacity we enumerate them under List No. 1.

2. To all work requiring a medium angle objective, as enumerated under List No. 2.

3. When they may be used as wide angle objectives, having an aperture of nearly 100 degrees, and as such they may be used with larger stop than any other specially constructed wide angle lenses. They are quite free from marginal distortion and magnified perspective, so common to lenses of this class. As wide angle lenses they are quoted under List No. 3. When using these lenses in this capacity, care should be used in beveling the back of the front board, so as to allow free passage of the rays.

The lenses are uncemented, each lens of the combination being mounted for itself, and are therefore free from danger of gradual decrease in speed, so common in many lenses, owing to the chemical change in the cement. The crown glass is on the outside, and therefore less liable to become scratched. The mountings are unusually compact, and each mounting has engraved upon it Mr. Clark's autograph as well as our firm name.

Catalogue for Amateurs.

While these lenses are intended to be used in all outdoor work, they are also particularly suited to copying, enlarging and photo-engraving work, and are superb for portraiture, particularly for groups, covering the plates for which they are rated, noticeably better than any others. Their characteristic qualities in almost every direction are of so high an order that we have no hesitation in claiming that they are superior to any lens yet produced.

These lenses, although classified under different lists, are marked as quoted in List No. 1.

LIST No. 1.

WORKING WITH STOP F. 7.5

No.	Size of Plate.	Diameter of Lenses.	Back Focus.	Equivalent Focus.	Price.	Telegraphic Code.
4½	3½ x 4½	3 in.	4½ in.	5 in.	\$25 00	Abel.
5	4 x 5	3½ in.	5½ in.	6½ in.	30 00	Abner.
8	5 x 8	1 in.	7½ in.	8½ in.	40 00	Achan.
8½	6½ x 8½	1½ in.	10½ in.	11 in.	50 00	Adam.
10	8 x 10	1½ in.	12½ in.	13½ in.	65 00	Agate.
12	10 x 12	2½ in.	15 in.	16½ in.	80 00	Alema.
15	12 x 15	2½ in.	18 in.	19½ in.	110 00	Amasa.
18	16 x 18	3½ in.	22 in.	23½ in.	160 00	Arab.
22	20 x 22	4½ in.	28 in.	29½ in.	210 00	Arbah.

LIST No. 2.

WORKING WITH STOP F. 12.0

No.	Size of Plate.	Diameter of Lenses.	Back Focus.	Equivalent Focus.	Price.	Telegraphic Code.
3	4 x 5	1 in.	3½ in.	3½ in.	\$20 00	Arbite.
4½	5 x 8	1½ in.	4½ in.	5 in.	25 00	Argob.
5	6½ x 8½	1½ in.	5½ in.	6½ in.	30 00	Armoni.
8	{ 8 x 10 }	1½ in.	7½ in.	8½ in.	40 00	Arodi.
	{ 10 x 12 }					
8½	{ 12 x 15 }	1½ in.	10½ in.	11 in.	50 00	Artemos.
	{ 16 x 18 }					
10	20 x 22	1¾ in.	12½ in.	13½ in.	65 00	Asabel.

LIST No. 3.

WORKING WITH STOP F. 35.0

No.	Size of Plate.	Diameter of Lenses.	Back Focus.	Equivalent Focus.	Prices.	Telegraphic Code.
3	5 x 8	1 in.	3½ in.	3½ in.	\$20 00	Asebia.
4½	6½ x 8½	1½ in.	4½ in.	5 in.	25 00	Asibias.
5	8 x 10	1 in.	5½ in.	6½ in.	30 00	Assir.
8	{ 10 x 12 }	1½ in.	7½ in.	8½ in.	40 00	Athens.
	{ 12 x 15 }					
8½	{ 16 x 18 }	1½ in.	10½ in.	11 in.	50 00	Angia.
	{ 20 x 22 }					
10	21 x 25	1¾ in.	12½ in.	13½ in.	65 00	Azara.

Catalogue for Amateurs.

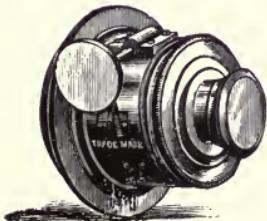
Anthony's Single Combination Lenses.



FOR ordinary landscape work these lenses give very brilliant effects, fully covering the plates specified. They are the best lenses in the market at the price. All have rotating diaphragms, so that the time of exposure may be varied to suit the subject.

No. 0, for $3\frac{1}{2} \times 4\frac{1}{2}$ plates.....	\$3.50	No. 2, for 5×8 plates.....	\$4.50
" 1, " 4×5 "	3.75	" 3, " $6\frac{1}{2} \times 8\frac{1}{2}$ "	7.00
No. 4, for 8×10 plates.....			\$7.00

E. A. View Lenses.



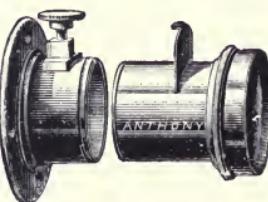
THESE are single combination lenses, used for landscape work only, but cover the plate very sharply. They have diaphragms in the front of the tube, and rack and pinion movement.

I-9 size, stereoscopic,	6 $\frac{1}{2}$ inch focus,	per pair,	.	.	.	.	.	\$9.60
I-6 "	" 9 "	"	.	.	.	.	.	10.00
I-4 "	for 5×8 view,	10 "	each	.	.	.	.	6.40
I-3 "	" 7 x 9 "	12 "	"	.	.	.	.	7.60
I-2 "	" 10 x 12 "	15 "	"	.	.	.	.	9.60
4-4 "	" 14 x 17 "	20 "	"	.	.	.	.	19.20

E. A. Rapid Lens (Hemispherical).



Lens ready for use.



Showing how the central stops or diaphragms are inserted.

HAS a double achromatic combination for making instantaneous views, portraits, groups, etc. The lens should be focused with the full opening.

Price, No. 1, for 4 x 5 pictures,	\$15.00
" No. 2, for 5 x 8 "	25.00
" No. 3, for 8 x 10 "	35.00

The No. 1 is supplied in rigid mounting.

E. A. Wide Angle Lens.



T HIS LENS being of short focus and of wide angle, and made on the rectilinear principle, is a useful one for architectural photography, and is not equaled at the price by any in market. Those who do not care to invest in *the best*—the Dallmeyer—will find this an excellent substitute.

No. 2, 4½ x 6½,	\$17.50	No. 4, 10 x 12,	\$25.00
No. 3, 7 x 9,	20.00	No. 5, 14 x 17,	35.00

E. A. Portrait Lenses. With Rack and Pinion.



THE attention of those who wish to procure a good portrait lens, but do not desire so expensive an instrument as that made by J. H. Dallmeyer, is respectfully invited to the following, which will be found good and uniform, as well as the best for the price. By removing the back combination, and screwing the front combination in its place, an excellent landscape lens is secured.

Back Focus.	Inches.	Each.
I-4 plain,	4 $\frac{3}{4}$	\$7.50
I-4 central stop,	4 $\frac{1}{2}$	8.75
I-3 " "	5	14.50
I-2 " "	6	17.50
4-4 " "	10	35.50

E. A. Instantaneous Stereo. Lenses.

FOR instantaneous outdoor views, for indoor stereo. groups, C. de V., etc., etc. These are portrait combinations, and so constructed that the back lenses can be removed and the front ones screwed in their places, thus making a pair of single combination landscape lenses. They are in matched pairs, have Waterhouse diaphragms in leather cases, and rack and pinion movement.

Price, per pair, \$19.20

The Platyscope Lens



IS another of the Rectilinear series of Aplanatic lenses and while more moderate in price than the Dallmeyer or Aristoscope, gives most excellent results. Besides giving the equivalent focus and measure of plate they will cover with full opening, we also state the

Catalogue for Amateurs.

circle of light, the marginal sharpness of which will depend on the diaphragm used. We guarantee every one.

No.	Full Opening.	Small Stop.	Circle.	Diameter.	Equiv. Focus.	Price.
A.	4 x 5 in.	5 x 7 in.	8½ in.	1 in.	6½ in.	\$22.00
B.	5 x 7 "	6 x 8 "	10½ "	1½ "	8½ "	30.00
C.	6 x 8 "	8 x 10 "	14 "	1½ "	11½ "	35.00
D.	7 x 9 "	10 x 12 "	15 "	1¾ "	12½ "	42.00
E.	8 x 10 "	11 x 14 "	19 "	2½ "	15½ "	50.00
F.	10 x 12 "	14 x 17 "	24 "	2½ "	19½ "	68.00
G.	12 x 15 "	17 x 20 "	32 "	3½ "	24 "	100.00

The Platyscope lenses are now fitted with IRIS diaphragm in place of the central stops, the desired opening being obtained by merely turning the ring on body of tube, which shows exact measure of opening. In these there are no loose diaphragms to get lost.

Long Focus Platyscope.

WE have also some Platyscopes of longer foci, for use on distant objects, yachts, steamers, etc., where one desires them to be larger on the negative than when lenses of shorter foci are used. This makes possible the photographing of many things which would otherwise be impossible, as for instance, views which from their distance would be too small to be of use. This lens in fact is exactly the reverse of a very short focus wide angle lens, and is as valuable in its way for special work as is the wide angle in its peculiar field.

Each lens is supplied with full set of diaphragms in a leather case.

No.	Full Opening.	Small Stop.	Back Focus.	Price.
AA.	5 x 7 inches	6½ x 8½ inches	8 inches	\$22.00
BB.	6½ x 8½ "	8 x 10 "	13½ "	30.00

Rapid Aristoscope Lenses.



WE have introduced these lenses in order to supply the demand for a first-class instantaneous instrument, giving rectilinear results,

Catalogue for Amateurs.

at a moderate price. They are unequalled at the price for instantaneous views, portraits, landscapes, architectural subjects, dimly lighted interiors, copying, etc., etc. We urge those who intend purchasing a lens for such work to try the Aristoscope before deciding. We guarantee them to be *unexcelled by any lens* except the Dallmeyer. Sizes, prices, etc., as follows:

No.	Size of View.	Size of Group.	Diam.	Equiv. Focus.	Price.
1	4 x 5	3 x 4 $\frac{1}{4}$	1 inch.	6 inches.	\$31.50
2	5 x 8	5 x 6 $\frac{1}{2}$	1 $\frac{3}{8}$ "	9 "	43.00
3	6 $\frac{1}{2}$ x 8 $\frac{1}{2}$	5 x 8	1 $\frac{1}{2}$ "	11 "	48.50
4	8 x 10	6 $\frac{1}{2}$ x 8 $\frac{1}{2}$	1 $\frac{3}{4}$ "	14 "	62.50
5	10 x 12	8 x 10	2 "	16 "	78.00
6	12 x 15	11 x 14	2 $\frac{1}{2}$ "	20 "	107.50
7	16 x 18	14 x 17	3 "	24 "	137.50
8	18 x 22	16 x 18	3 $\frac{1}{2}$ "	30 "	187.50
9	22 x 25	18 x 22	4 "	34 "	225.00

Wide Angle Aristoscope Lenses.



THIS LENS is fast becoming a favorite and where a really first-class instrument is required at a moderate price, cannot be excelled. It has great depth of focus, sharp and brilliant definition, and is rectilinear in its results. We would urge its trial and feel confident that if tested, its superiority will be made apparent.

No.	Size of View.	Diameter.	Back Focus.	Equiv. Focus.	Price.
1	5 x 6 $\frac{1}{2}$	$\frac{7}{8}$ in.	3 $\frac{1}{2}$ in.	4 in.	\$33.00
2	6 $\frac{1}{2}$ x 8 $\frac{1}{2}$	1 $\frac{1}{8}$ "	4 $\frac{5}{8}$ "	5 $\frac{1}{4}$ "	40.00
3	10 x 12	1 $\frac{1}{2}$ "	6 $\frac{1}{4}$ "	7 "	57.00
4	12 x 15	2 "	7 $\frac{1}{2}$ "	8 $\frac{1}{2}$ "	77.50
5	16 x 18	2 $\frac{1}{2}$ "	11 "	13 "	103.50
6	20 x 22	3 "	14 "	15 $\frac{1}{2}$ "	148.00
7	21 x 25	3 $\frac{3}{4}$ "	17 "	19 "	222.00

Dallmeyer's Lenses.

THE extraordinary unanimity of opinion regarding the excellence of Mr. Dallmeyer's lenses both in Europe and America, is one of the most gratifying evidences of their great superiority. There is not a photographer of any note on either side of the Atlantic who is not the possessor of one or more—some can count them by the dozen—and the difference in cost between these and the inferior ones is very slight, when their great superiority is considered. None others approach them, and they have long been justly held to be the most indispensable of all the requisites of the art.

In the quality of the glass used; in the perfection of finish and adjustment; in softness, crispness and depth; in rapidity, delicacy and every quality a lens should possess, the Dallmeyer lenses are unrivaled. With or without diaphragms, they are better adapted to the particular work in hand than any others ever made, and every kind of photographic requirement is provided for. Before purchasing, carefully read the information contained in the catalogue, particularly that regarding the series of rapid rectilinear and the wide angle rectilinear.

The first requirement in making photographs of great merit, whether for portraiture, landscapes, architectural views, or copying, is a lens that in skilled hands promises the very best results. Those who excel uniformly select Dallmeyer lenses and pronounce them indispensable.

The PATENT PORTRAIT combinations have an adjustment of the back lens by which a diffusion of focus or depth of definition is obtained. This is not found in any other make. They also have a full set of the Waterhouse diaphragms in morocco cases.

Mr. Dallmeyer's line of lenses is the most complete of any in market, embracing everything that can be wanted for any possible operation.

Dallmeyer's Wide-Angle Rectilinear Lenses.*

(Patent.)

THESE LENSES embrace angles of pictures from 90 to 100 deg., and enable photographers to take views of buildings, interiors, etc., in confined situations, where lenses of longer focus cannot be used, and where absolute rectitude of lines is imperative.



The wide-angle rectilinear lens has the following advantages over existing non-distorting double combination lenses: It is entirely free from a central spot. It can be used with a larger stop, *i. e.*, it is quicker in action. It

* This lens is also well adapted for stereoscopic views.

Catalogue for Amateurs.

produces a more brilliant picture. The lenses of which it is composed are smaller and thinner, for a given sized plate, than those of other lenses intended for the same size of picture.

The lenses are mounted in rigid settings or tubes, and each is furnished with a rotating diaphragm plate. In the column below, the largest size of plate covered by each lens is recorded ; and if microscopic definition up to the corners be required the smallest or smallest but one stop should be used.

No.	Largest Dimension of Plate.	Dia. Combination.	Front.	Back Focus.	Equivalent Focus.	Price.	Remarks.
1AA	4½ x 7½	7	3½ in.	4	in.	\$37.00	
1A	6½ x 8½	1½	4½ "	5½ "		45.00	
1	10 x 12	1½	6½ "	7	"	61.50	
2	12 x 15	2	7½ "	8½ "		86.00	
3	16 x 18	2½	11 "	13 "		115.00	
4	20 x 22	3	14 "	15½ "		164.00	

Dallmeyer's Rapid Rectilinear Lenses.

(Patent.)

THE RAPID RECTILINEAR LENS is emphatically "The Lens" for all kinds of outdoor photography. It works at an intensity of $\frac{1}{8}$, and, although not so rapid as the D Lens, requiring nearly double the exposure, is *superior* to it for views because of its having only four, instead of six, reflecting surfaces.

It is composed of two exactly symmetrical cemented combinations, and unlike most existing double combination cemented lenses, requiring small stops to cure the inherent excessive spherical aberration, the Rapid Rectilinear is aplanatic, *i. e.*, it works with the full opening. Hence its superiority for all kinds of *quick* outdoor pictures, groups, instantaneous effects, landscapes, architectural subjects, or for dimly-lighted interiors. For copying and enlarging this lens is unrivalled. With smaller stops each

lens covers the next larger, or even two sizes larger plates than those recorded, thus embracing angles of pictures from sixty to eighty degrees and this without any trace of flare or central spot. Many fine large portrait studies have been taken with this lens, and it is to be found in the possession of almost every photographer of eminence wherever the art is practiced. Either combination can be used singly as an ordinary landscape lens ; focus, about twice that of the compound lens.



Catalogue for Amateurs.

Each lens is supplied with a set of Waterhouse diaphragms. If required, any of the lenses marked below can be used, with smaller stops, for the next size larger view.

N. B.—It is recommended that all rapid rectilinear lenses above the 10×12 size should always be *focused* with a medium stop (No. 3), whether the picture is to be afterwards taken with a larger or smaller stop. Each lens is constructed to give the greatest possible "depth of focus" which involves the above conditions.

Size of View or Landscape.	Size of Group or Portrait.	Diameter.	Back Focus.	Equivalent Focus.	Price Rigid Set.
$3\frac{1}{2} \times 4\frac{1}{2}$ in.	$3\frac{1}{4} \times 3\frac{1}{4}$ in.	$\frac{5}{8}$ in.	$3\frac{5}{8}$ in.	4 in.	\$31.00
4×5 "	$3\frac{1}{4} \times 4\frac{1}{4}$ "	1 "	$5\frac{1}{2}$ "	6 "	37.00
5×6 "	4 x 5 "	$1\frac{1}{4}$ "	$7\frac{1}{2}$ "	$8\frac{1}{4}$ "	45.00
$6\frac{1}{2} \times 8\frac{1}{2}$ "	5 x 6 "	$1\frac{1}{2}$ "	$10\frac{1}{2}$ "	11 "	57.50
8×10 "	$6\frac{1}{2} \times 8\frac{1}{2}$ "	$1\frac{3}{4}$ "	$12\frac{1}{4}$ "	13 "	74.00
10×12 "	8 x 10 "	2 "	15 "	16 "	90.00
12×15 "	10×12 "	$2\frac{1}{2}$ "	18 "	$19\frac{1}{2}$ "	123.00
16×18 "	12×15 "	3 "	23 "	$24\frac{3}{4}$ "	164.00
20×22 "	16×18 "	$3\frac{3}{4}$ "	28 "	$30\frac{1}{2}$ "	222.00
21×25 "	20×22 "	4 "	$31\frac{1}{2}$ "	$33\frac{1}{2}$ "	262.00

4 x 5 furnished in matched pairs for stereo. work.

Dallmeyer's Rapid Landscape Lens. (Long Focus.)

THIS is a single combination landscape lens specially constructed for obtaining large images in distant views, mountain scenery, balloon photography, etc. Each lens is supplied with a set of Waterhouse diaphragms, the apertures of the stops of these lenses being too large to admit of their arrangement in the form of a rotating diaphragm as supplied with the "wide angle" landscape series. It has a working intensity somewhat more than $\frac{1}{2}$ (or about twice as quick as the wide angle landscape lens), and in this condition is entirely free from outstanding spherical aberration, *i. e.*, gives a perfectly defined image.

No.	Largest Dimensions of Plate, Inches.	Diameter.	Equiv. Focus. Inches.	Price.
1	$4\frac{3}{8} \times 6\frac{1}{2}$	1.3	9	\$37.00
2	$6\frac{1}{2} \times 8\frac{1}{2}$	1.6	12	47.25
3	8 x 10	2.125	15	61.50
4	10×12	2.6	18	78.00
5	12×15	3.	22	94.50
6	16×18	3.5	25	115.00
7	20×22	4.25	30	144.00

Catalogue for Amateurs.

Dallmeyer's New Wide Angle Landscape Lens.

THIS is a single combination landscape lens, working at an intensity of $\frac{1}{15}$, and is the best lens for landscapes, pure and simple, embracing large angles. Being a single combination, like the rapid landscape, it has but two reflecting surfaces and therefore produces a more brilliant picture than the wide-angle multiple lenses. It works with a proportionally large stop, *i. e.*, it is quicker in action and the illumination is more equally distributed from the center to the margin of the plate. Being composed of three lenses cemented together it is superior to the old Meniscus, composed of two, inasmuch as it produces less distortion, gives better marginal definition and is of much smaller size.

The Lenses are mounted in "Rigid" Tubes or Settings, with "Rotating" Stops.

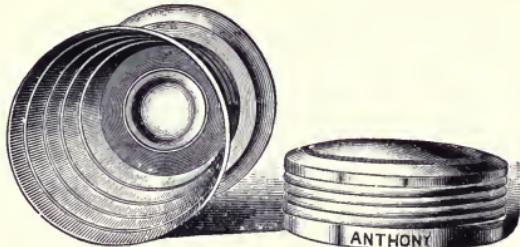
No.	Size of Plate.	Diameter.	Equivalent Focus.	Price.	Remarks.
1A	4 x 5	1 $\frac{3}{8}$	5 $\frac{1}{4}$	\$26.50	No. 1A and No. 1 are
1	4 $\frac{1}{2}$ x 7 $\frac{1}{2}$	1 $\frac{5}{8}$	7	31.00	made to screw into
2	6 $\frac{1}{2}$ x 8 $\frac{1}{2}$	1 $\frac{7}{8}$	8 $\frac{1}{2}$	37.00	the same flange as
3	8 x 10	2 $\frac{1}{8}$	10	45.00	No. 1 Triple Achromatic Lens.
4	10 x 12	2 $\frac{5}{8}$	12	57.50	
5	12 x 15	2 $\frac{5}{8}$	15	70.00	Nos. 2 and 3 screw in-
6	16 x 18	3	18	86.00	to No. 2 Triple
7	20 x 22	3 $\frac{5}{8}$	22	115.00	Achromatic flange.
8	21 x 25	4 $\frac{1}{4}$	25	155.00	

Dallmeyer's New Rectilinear Landscape Lens.

THIS LENS works at an intensity, with the first stop, of $\frac{1}{14}$, and is therefore somewhat slower in action than the rapid landscape, requiring an exposure of about $\frac{1}{3}$ longer and, similarly to those lenses, may be used with a larger aperture than the first stop. It is particularly constructed for views, architectural subjects, copying, etc., where it is essential that straight lines should be accurately portrayed, and has been constructed specially to meet this long-felt want in the form of a single combination.

No.	Largest Dimensions of Plate.	Diameter.	Equivalent Focus.	Price.
1	5 x 6 $\frac{1}{2}$ in.	1 $\frac{1}{2}$ in.	8 $\frac{1}{2}$ in.	\$39.00
2	6 $\frac{1}{2}$ x 8 $\frac{1}{2}$ "	1 $\frac{3}{4}$ "	11 $\frac{1}{2}$ "	49.50
3	8 x 10 "	2 "	13 $\frac{1}{2}$ "	65.50
4	10 x 12 "	2 $\frac{1}{4}$ "	16 $\frac{1}{2}$ "	84.00
5	12 x 15 "	2 $\frac{5}{8}$ "	20 "	102.50
6	16 x 18 "	3 "	25 "	131.00
7	20 x 22 "	3 $\frac{1}{2}$ "	32 "	172.00

Anthony's Combination Focusing Glass.



HANDY and compact; serving the double purpose of a convenient drinking cup and a perfect focusing glass. A telescopic metallic cup, with a fine lens adjusted to the bottom, and packed in a neat metal case with screw cover. Every tourist photographer should have one.

Price, \$0.75

The New Duplex Focusing Glass.



CHEAP and good. Price, \$1.25.

E. A. Compound Focusing Glass.



FOR fine work the E. A. Compound Focusing Glass is the best. It has a double compound lens. The price is \$2.50.

The Photoscript

IS an ingenious apparatus, by means of which the operator may title and number his negatives in plain type, with little or no trouble, directly on the film surface. The letters and numbers so produced, are clean cut and white, and may be put in any corner or margin desired.

Price.....\$6.00

Catalogue for Amateurs.

Finder Lenses.

THESE lenses are of first quality, and are furnished either double or plano-convex, with edges ground or unground.

No.	Diameter.	Focus.	Price, with edges unground.	Prices, with edges ground.	Telegraphic Code.
1	1 inch.	5 to 2 inch.	\$0 40 each	\$0 60 each.	Idnel.
2	"	3/4 to 2 "	40 "	60 "	Igal.
3	"	1 to 2 "	40 "	60 "	Ivam.
4	"	1 1/2 to 3 "	40 "	60 "	Ishod.
5	"	1 1/2 to 3 "	50 "	70 "	Ithai.
6	"	2 to 3 1/2 "	50 "	70 "	Irah.
7	1 "	2 to 4 "	50 "	70 "	Isui.

Camera Levels.



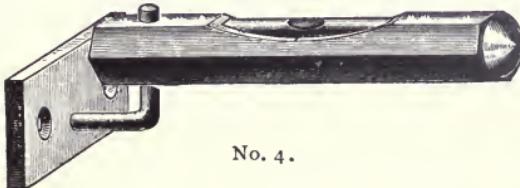
No. 1.



No. 2.



No. 3.

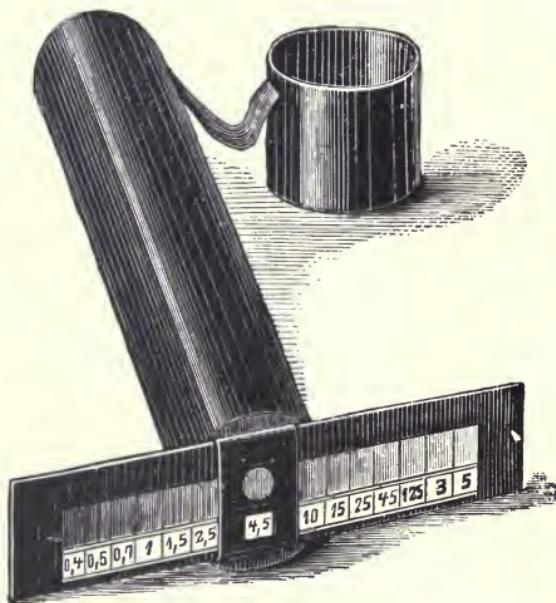


No. 4.

No.	Description.	Price.	Telegraphic Code.
1	In Metal Mounting, round, with flange and screw holes	\$0 75	Lahmi.
2	In Metal Mounting, round, large size.....	1 00	Lahad.
3	In Metal Mounting, with Adapter for adjustment to Camera Box.....	90	Limus.
4	In Metal Mounting, so arranged as to allow levelling of Camera in both directions.....	1 25	Lysias.

Photometer for Timing Exposures.

THIS instrument consists of a black cloth covered tube, in one end of which is an aperture, into which slides a graduated scale, through which the light is allowed to pass *via* the tube, which is placed on the ground glass in the same way that a focusing glass would be used.

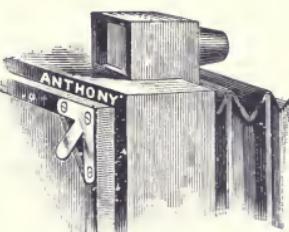


Corresponding to each graduation in the scale is marked a number, which gives the relative time of exposure required for pictures of differing intensity of lighting.

It will prove of great value to those who are constantly overtiming or undertiming their plates.

Price..... \$1.00

Anthony's Universal Finder.



Showing method of fastening Finder to Camera. Showing Finder on Camera.

THIS is a neat, compact article that can instantly be attached to any camera, and is of great value in composing a view. The object to be photographed being plainly visible and occupying the same relative position as on the ground glass or plate, it is indispensable for instantaneous views of moving objects. It corresponds in shape to the ordinary negative. The ground side of the glass can be marked at will to denote position desired when taking instantaneous views.

Price, \$1.50

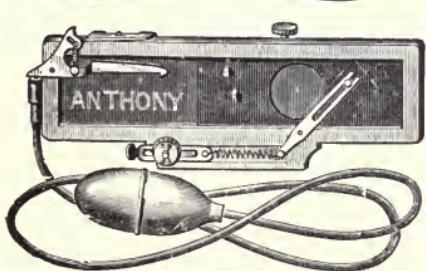
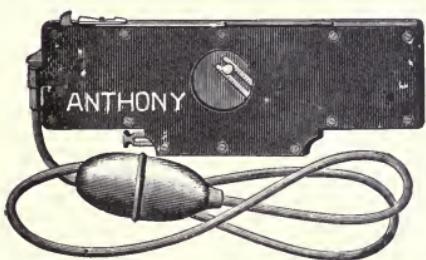
Anthony's Climax Shutter.

THE shutter is attached to the lens tube by means of a metal collar, that is provided with a binding screw to hold it firmly in place. The shutter consists of a wooden casing, with facing of hard rubber, inside of which is a hard rubber slide, having an aperture corresponding

in size to the aperture in the casing. This slide runs very easily in the grooves in wooden casing, and admits of a very rapid exposure when the shutter is set at full speed. The shutter is set by turning (*towards the right*) the milled screw at the left hand side of back. The speed can be regulated at will by drawing out or pushing in the brass pull, seen in the cut, at lower left hand side of shutter, a binding screw at the left serving to hold this pull at any desired distance, thus perfectly regulating the speed.

For time exposures the shutter should be set at slow speed, and the

little brass piece on top of shutter at the left hand side (see cut), so adjusted as to allow the long arm of the trigger to reach down as far as it will go, thereby engaging with the lower pin on the slide at the moment



Catalogue for Amateurs.

when the openings in slide and wooden casing coincide. The shutter is constructed so as to remain open until the pressure on the bulb is released, when it will close instantly.

Size.	Apert. of shutter.	Price.	Size.	Apert. of shutter.	Price.
No. 1.	1 inch,	\$4.00	No. 3.	1½ inch,	\$4.00
No. 2.	1¼ "	4.00	No. 4.	1¾ "	4.00

Collars furnished to fit all standard lenses without extra charge.

Anthony's Drop Shutter.

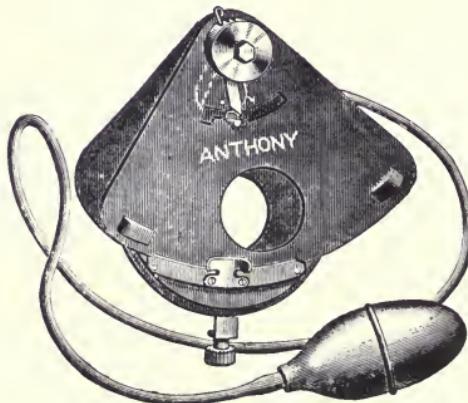


ONE of the neatest, simplest and most practicable drop shutters ever made. It is adapted to either time or instantaneous movement by simply turning a small metal button, and the working of the shutter for either is simply perfect. The tension being obtained by the use of a rubber band, it may be set at great speed, or may be worked by gravity alone, if desired.

Price, complete with rubber tube and bulb.....\$2.00

The Nonpareil Shutter,

For Time or Instantaneous Exposure.



THE above cut represents the Nonpareil Shutter, possessing many advantages over those previously shown.

For instantaneous exposure, leave the metal catch down, as shown in cut.

For time exposure, turn the catch upward to the right.

The hood should be removed from the lens when possible in using this shutter, and care should be taken to have the collar of shutter closely fitted to lens to exclude light.

In order that it may fit any Lens this shutter is provided with a

Catalogue for Amateurs.

movable collar, which, by the use of three turn screws, may be made either larger or smaller, so that it is adjustable to any ordinary lens.

By a very simple and ingenious device, this shutter is changed from long time exposure to the most rapid instantaneous working, all that is needed to effect the change being the adjustment of a metal catch.

It is provided with Pneumatic Release which works either time or instantaneous movement, and for the former is unlike most other shutters in use, inasmuch as the bulb must be compressed for opening the shutter and again compressed for closing it; a metal catch dropping and holding it open until released by the second pressure of bulb, whether for long or short time. The shutter responds instantly to the compression of the bulb, thus giving the operator *perfect control* of his exposure.

It is compact, light and simple in construction, easily worked and of fine appearance, and each shutter is neatly packed in a small mahogany case, which will readily fit into the pocket.

The price of this shutter, with bulb and rubber tube, is \$4.50.

The following are the sizes of the apertures which we keep in stock:

No.	Front opening of shutter.	Opening of adjustable collar.					Price.
		1 inch,	1 $\frac{1}{4}$ "	1 $\frac{1}{2}$ "	1 $\frac{3}{4}$ "	2"	
1,	.	.	1 $\frac{1}{4}$ "	1 $\frac{1}{2}$ "	1 $\frac{3}{4}$ "	2"	\$4.50
" 2,	.	.	1 $\frac{1}{4}$ "	1 $\frac{1}{2}$ "	1 $\frac{3}{4}$ "	2"	4.50
" 3,	.	.	1 $\frac{1}{4}$ "	1 $\frac{1}{2}$ "	1 $\frac{3}{4}$ "	2 $\frac{1}{2}$ "	4.50
" 4,	.	.	1 $\frac{1}{4}$ "	1 $\frac{1}{2}$ "	1 $\frac{3}{4}$ "	2 $\frac{1}{2}$ "	4.50
" 5,	.	.	2 $\frac{1}{8}$ "	2 $\frac{1}{4}$ "	2 $\frac{1}{2}$ "	2 $\frac{3}{4}$ "	6.00

Prosch's Duplex Shutter.

A Perfect Time and Instantaneous Shutter.

THIS SHUTTER is now so well known that an extended description here is hardly required. When shutter is received by purchaser, he transfers the glasses from his regular lens tube to correctly adapted tubes on the shutter, which are also arranged to receive regular diaphragms. Rotary diaphragms are added to shutter when ordered.

DUPLEX ENLARGED REVISED LIST.

Numbers,	.	00	0	OA	I	IA	2	2A	3
Openings, in		$\frac{5}{8}$	$\frac{7}{8}$	I	$I\frac{1}{8}$	$I\frac{2}{8}$	$I\frac{3}{8}$	$I\frac{4}{8}$	$I\frac{5}{8}$
Prices,		\$11.50	12,	12.50,	13,	13.50,	14,	14.50,	16.

Rotary stops to shutters up to and including No. 1, \$1.50; to No. 2A, \$2. An additional pneumatic attachment may be added at same

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extra prices as for rotary stops, by which silent time and very slow to quite rapid instantaneous exposures can be made without having to reset the shutter for each exposure.



Opening in shutter should be about the size of next to largest diaphragm. Shutters can be furnished complete for most standard lenses, but it is to customer's interest to forward his lens tube to ensure a perfect fit, which is returned to him intact, with complete shutter.

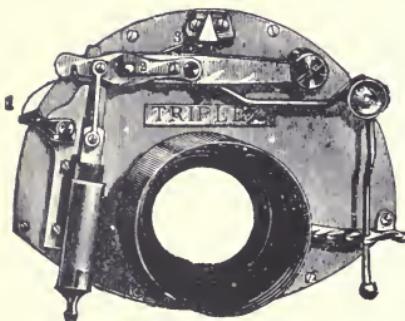
The Duplex can be operated, either time or instantaneous, as easily from a considerable distance as when close by.

The Triplex Shutter.

(IMPROVEMENT ON THE "DUPLEX.")

THE Triplex shutter gives facility of three methods of exposure: Quick instantaneous, time, slow instantaneous. Time and slow instantaneous are effected in manner similar to silent time, slow instantaneous to Duplex shutter. Its simplicity of construction and operation, and

its mechanism being on front in sight, recommend it. It has met with much favor since its introduction in Summer of 1889. It is easily adapted for use in detective boxes, to be released by either, or both, push trip or pneumatic. It is also made in stereoscopic form. The makers of this shutter assert that practical comparison with any other will demonstrate its unquestioned superiority. When no particular size shutter is specified in order, lenses as a rule are adapted to shutter having opening less than



Two-third Size 4 x 5 Shutter.

the largest diaphragm of lens. Thus, a $6\frac{1}{2} \times 8\frac{1}{2}$ lens is adapted to a No. 1 shutter. Rotary stops include five openings, largest corresponding with opening in shutter, four others such as are thought best. Requests for special sizes are, however, complied with when possible. Rotary stops, up to size No. 1, price, \$1.50; over that size, up to No. 2A, \$2.00 extra, but not furnished above 2A.

SIZES AND PRICES.

Numbers....	00	0	0A	1	1A	2	2A	3	3A	4	5
Openings, in.	$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2	$2\frac{1}{4}$	$2\frac{1}{2}$
Prices.....	\$11.50	12.00	12.50	13.00	13.50	14.00	14.50	16.00	18.00	20.00	22.00

When flange collars are required, as on Ross and lenses similarly mounted, 50 cents extra.

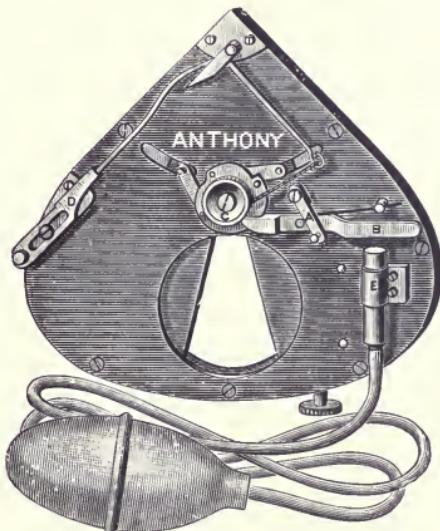
Shutters can be furnished for most standard lenses, fitted ready for use, but it is to the customer's interest to forward his lens tube, otherwise perfect fit is not guaranteed.

The "Hadden" Shutter.

(*Patented.*)

FOR INSTANTANEOUS OR TIME EXPOSURES.

THIS shutter is made of metal, with hard rubber face and disks. The latter are propelled by levers connecting them with the revolving plate, this plate being actuated by means of a lever and cord. This shutter, though expensive, is one of the most perfect ever made.



To Operate the Shutter.—For instantaneous work, push the lever, A, to the right (as shown in the cut). Revolve the nut, C, until the aperture is full, when the focus can be obtained. Revolve it further until it catches, and pull out the slide, D, as far as it will go; then press the bulb and the operation is effected. For time exposures, push in the slide, D, to slacken the speed, push the lever, A, to the left, press the bulb and release the pressure. The shutter will remain open until the bulb is again pressed, when it closes instantly.

The shutter is attached to the front of the lens by means of a collar. They are kept in stock of two sizes, aperture of $1\frac{1}{4}$ and $1\frac{3}{4}$ inches.

Collars may be fitted to any of the regular makes of lenses in market.

Price, each \$12.00

Diaphragm Shutter.

TIME AND INSTANTANEOUS, WITH SILENT TIME ATTACHMENT.

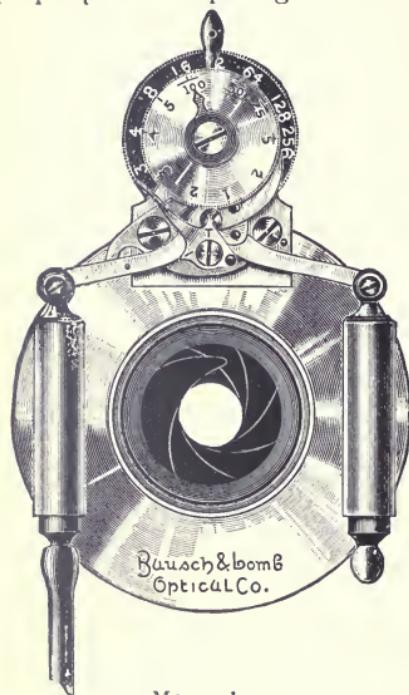
THE advantages of the principles involved in the Diaphragm Shutter are so apparent that they have from the outset been fully appreciated. It requires little argument to show that the proper place for opening and closing a Shutter is in the optical axis of

the Lens, and in both time and instantaneous photography, it is evident that this Shutter, starting its opening with a pin hole and gradually increasing to the size of stop for which it is set, and returning in the same manner, will give the effect of a small stop, *i.e.*, more depth and flatness.

The makers have taken advantage of all the improvements, and offer the Model '90 with the confidence that it meets every condition. While the Shutter is in itself a nice piece of mechanism, the workmanship and finish are of the highest order.

The advantages of this Shutter over others are as follows:

There are no loose stops. The variation in size of stop is made by turning the black disk, which is supplied with a large index. Absolute control of time exposure. Large index giving correct indication of time, in seconds and fractions thereof. Entire independence of speed regulation from the influence of temperature or humidity. By turning a lever it is set for either



MODEL '90.

(Cut two-thirds of actual 5 x 8 size.)

time or instantaneous exposure, and remains so until changed. The movement during exposure is almost absolutely free from concussion. The blades are changed from steel to hard rubber, so that there is no danger from rust. All parts which must be manipulated are placed at the front, easy of access. We guarantee that the Shutters and barrels are absolutely true and optically centered, whether arranged for our Lenses or others.

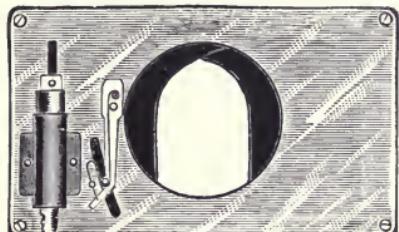
While we have sample barrels of almost all known Lenses, we find that there is a variation in the thread of almost all makes. We will therefore assume no responsibility in fitting the same, and recommend that the Lenses or Lens tubes be sent to us to be fitted.

When fitted to Rapid Universal and Alvan G. Clark Lenses (List No. 1).	With extra Bar'l and Diap.	When fitted to Lenses of other manufacture leaving barrel intact.	Telegraphic Code.
3 $\frac{1}{4}$ x 4 $\frac{1}{4}$	\$11 00	\$12 50	7 in. opening of Diaphr. \$13 00
4 x 5	11 00	12 50	1 $\frac{1}{2}$ in. " " 14 00
5 x 8	12 00	13 50	1 $\frac{7}{16}$ in. " " 15 00
6 $\frac{1}{2}$ x 8 $\frac{1}{2}$	13 00	14 50	1 $\frac{3}{4}$ in. " " 16 50
8 x 10	14 50	16 00	2 in. " " 18 00
10 x 12	16 00	17 50	2 $\frac{1}{2}$ in. " " 19 50
12 x 15	17 50	19 00	2 $\frac{5}{8}$ in. " " 21 00
16 x 18	19 00	20 50	Dagon. Dalphon Danites. Dara. Darius. Debir. Dedan.

Catalogue for Amateurs.

Low "Kazoo" Shutter, No. 1.

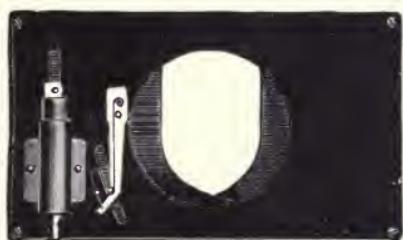
THE Low "Kazoo" Shutter No. 1 is a handsomely finished nickel plated shutter. Can be instantly changed from time to instantaneous exposure, by simply moving the small lever to one side. Gives the correct exposure, and requires no resetting after either time or instantaneous movement, as it sets itself after every exposure without opening the wings. This shutter is provided with an adjustable spring back that will fit any size of lens tube.



1 $\frac{1}{2}$ inch opening, 4 inches long by 2 $\frac{3}{4}$ wide.....	\$6 00
1 $\frac{3}{4}$ " " 4 $\frac{1}{2}$ " " 2 $\frac{1}{2}$ "	6 50
2 " " 4 $\frac{7}{8}$ " " 3 $\frac{1}{2}$ "	7 00
2 $\frac{1}{2}$ " " 5 $\frac{3}{8}$ " " 3 $\frac{1}{2}$ "	7 50
2 $\frac{1}{2}$ " " 6 " " 4 $\frac{1}{2}$ "	8 00

Low "Kazoo" Shutter, No. 2.

THIS Low "Kazoo" No. 2 is designed to be placed on the inside of camera and attached to the front board. It can be operated entirely from the outside of the camera and at any distance away. To change from time to instantaneous exposures, it is only necessary to push in or pull out a small brass pin, which passes through the front board and into the shutter. It will balance open for any length of time while focusing. The "Kazoo" gives the correct exposure, lighting the drapery or foreground most.



1 $\frac{1}{2}$ inch opening, 4 inches by 2 $\frac{3}{4}$ outside.....	\$6 00
1 $\frac{3}{4}$ " " 4 $\frac{1}{2}$ " " 2 $\frac{1}{2}$ "	6 50
2 " " 4 $\frac{7}{8}$ " " 3 $\frac{1}{2}$ "	7 00
2 $\frac{1}{2}$ " " 5 $\frac{3}{8}$ " " 3 $\frac{1}{2}$ "	7 50
2 $\frac{1}{2}$ " " 6 " " 4 $\frac{1}{2}$ "	8 00

Low View Shutter, No. 10.

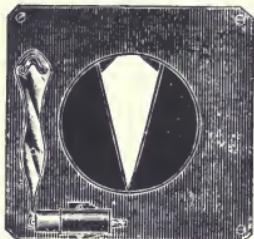
THE Low Shutter No. 10 is simply constructed and is a very practical shutter. It is nicely finished with Japan front, with brass trimmings, and cherry finished back. There are now many hundred of them in use which are giving universal satisfaction and splendid results. They can be readily changed from time to instantaneous exposures, by moving the brass lever to one side.



PRICE, \$6.00 EACH.

1 $\frac{1}{2}$ inch opening	3 $\frac{7}{8}$ inch round.
1 $\frac{3}{4}$ " "	4 $\frac{1}{2}$ " "
2 " "	4 $\frac{1}{2}$ " "
2 $\frac{1}{2}$ " "	6 " "

Low Shutter, No. 6.



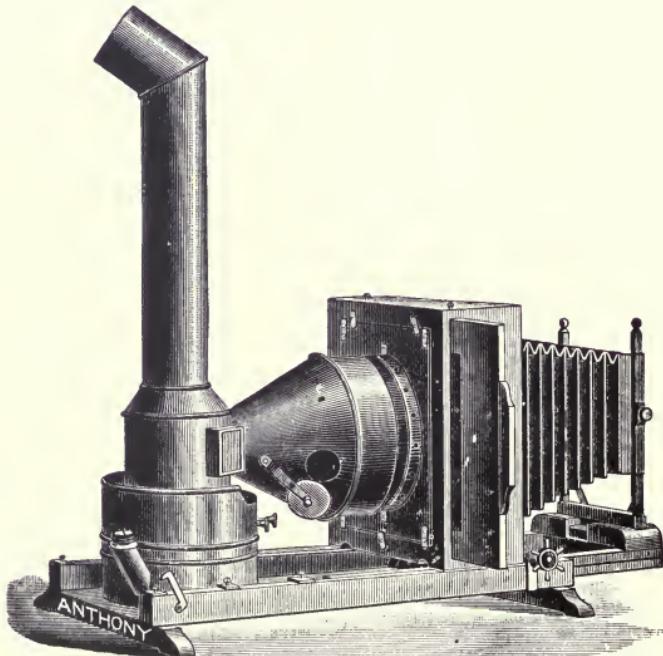
THE Low Shutter No. 6 is a very simple, well made, and nicely finished shutter, having the special advantage of a very large opening in a small shutter. Works lightly and easily, and gives the correct exposure. For cameras having small front-boards the Low Shutter No. 6 is especially adapted. The small sizes are admirably adapted for time view work. To change from time to instantaneous exposures it is only necessary to push in, or pull out, a small brass pin, which passes through the front board into the shutter.

$\frac{1}{2}$ inch opening, 3 inches square	\$5.50	2 inch opening, 4 inches square	\$6.00
$\frac{1}{4}$ " " $3\frac{1}{2}$ "	5.50	$2\frac{1}{2}$ " " $4\frac{3}{4}$ "	6.00

Cooper's Universal Enlarging Lantern.

Patented Cooper & Lewis October 11, 1887, No. 371,252.

T. H. McAllister April 6, 1886, No. 339,451.



Above shows it as in use with *artificial light*.

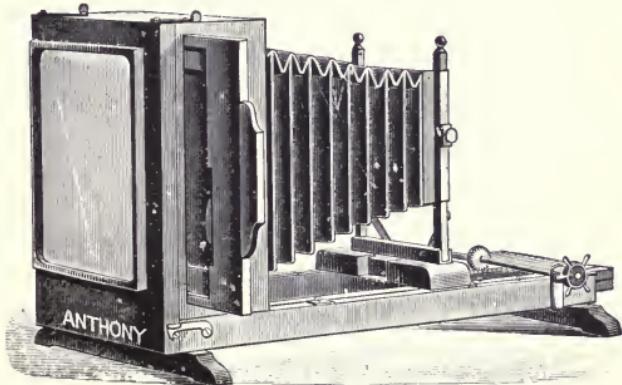
THE CUTS give an admirably clear idea of the Universal Lantern, and at a glance any one acquainted with the mechanism of projecting lanterns will see its advantages. With only a passing reference

Catalogue for Amateurs.

to the camera and front, the use of which is obvious, your attention is called to the apparatus for illumination, which is by all odds the most important feature of any enlarging lantern.

The lamp, which is intended for use with kerosene, is provided with a double-wick burner, both flames emerging through a single aperture in the dome. This feature increases the volume of light two-fold; the burner is provided with a close-fitting chimney-base fitted with an aperture covered with non-actinic glass, intended both for dark room illumination and also for observing the height of the flames. A conical light conductor connects the lamp with the condensing lenses, and is made to telescope so as to adjust the light accurately to the focus of the condensers; this light conductor has an aperture at the side covered with a movable metallic disk, and is intended to admit of the operator finding the centering point of his flame on the condensers; this he will see at a glance by the reflector. The lamp is not rigid, but can be revolved so as to bring the flame in any desired position. Some negatives require a more intense light than others, and experience will show how to arrange the light for any particular occasion.

The form of this lantern is such that all heat passes upwards through the chimney, and as there is no boxing around the apparatus it is always cool, and all risk of breaking lenses or negatives is avoided. The change from the use of artificial light to daylight is better shown in the cut than described in writing. With this lantern and a half-inch stop in a half-size portrait lens, life-sized enlargements from cabinet negatives may be easily made with Anthony's Reliable Bromide Paper in from thirty-five seconds to one minute, according to density of negative.



Cooper Lantern as transformed into a *Daylight Enlarging Camera*.

The design of this lantern is the result of long practical experience with various methods of illumination for enlarging, and we can guarantee its giving results as perfect as the electric light at a cost that makes comparison ridiculous. This lantern is also admirably suited for slide projection, and is therefore of double value to societies and colleges.

Catalogue for Amateurs.

Any double combination lens may be used as an objective with this lantern—a portrait lens for enlarging portraits and landscape lens for landscapes.

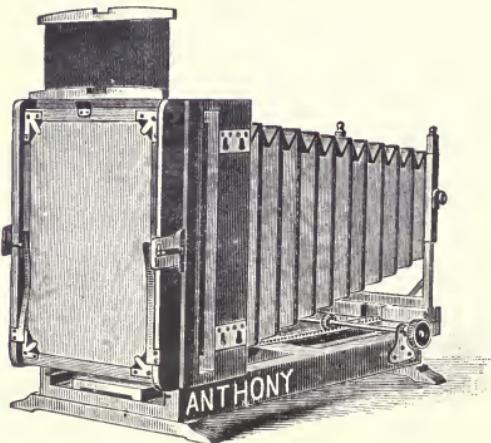
This lantern may be transformed into an 8 x 10 portrait or copying camera by the addition of an adapter, double dry plate holder, and ground glass, at an extra expense of \$10.

Price, without objective (fitted with two 5½-inch condensers),	.	\$40.00
" " "	.	60.00
" " "	.	80.00
" " "	.	100.00

FOR DAYLIGHT ENLARGING.—Remove the lamp and condensers, rack the front inward as far as it will come, then raise the back of the bellows-bearing frame from its position to the back of the bed-board on which it will be securely held by the screw heads which fit into the key-hole slots corresponding. Remove the front in the same way and set it back on the screws designed for it, which will be found on the movable bed operated by the rack work. Attach the ground-glass frame to the back and the instrument is ready for use. A dark room with an aperture in the window allowing the ground glass end to fit firmly so as to exclude all outside light, but allowing an unobstructed view of the sky, is the most satisfactory.

If you cannot get a clear view of the sky use a mirror at a proper angle to reflect the sky above. White card-board reflectors may be used, but nothing equals the mirror. A shelf should be fastened to the window to support the weight of the camera.

USED AS A COPYING OR PORTRAIT CAMERA.—Besides the double use for artificial or daylight work, this camera may be fitted with an attachment by which it can be quickly and easily adapted to the purposes of



Cooper Lantern as transformed into *Copying or Portrait Camera*.

a copying or portrait camera. The camera being put together as in use for daylight enlarging, the ground glass and carrier are removed, and

Catalogue for Amateurs.

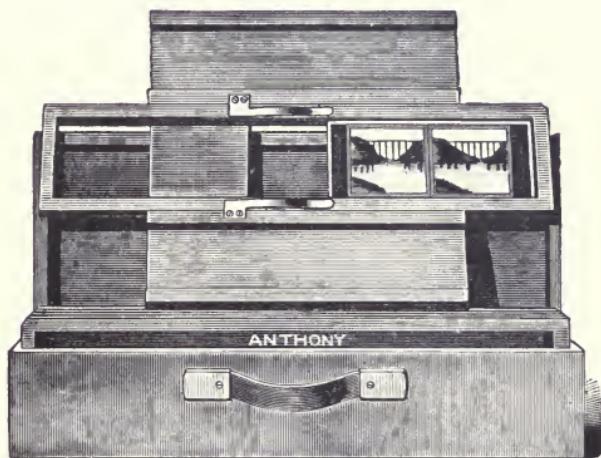
in their place a regular camera back is buttoned on. This is provided with a double dry plate holder, 8 x 10, which is slid into position under the ground glass, as shown in the cut. For ordinary work up to 8 x 10 in the gallery this is as good as any camera made.

Price of Attachment with 8 x 10 Double Dry Plate Holder, in addition to cost of

Lantern,	\$10
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Magic Lantern Attachment

For the Cooper Lantern.

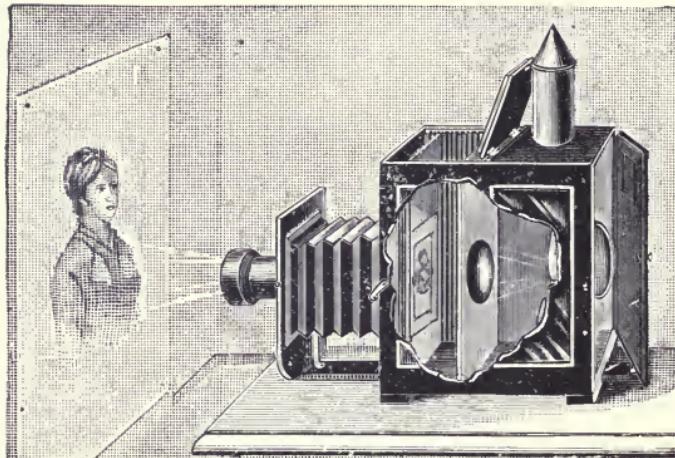


THE ABOVE CUT represents the attachments which may be used with the Cooper Lantern for the exhibition of slides of views or scientific subjects, and makes the apparatus complete and specially suited to the use of schools, colleges and societies.

Consists of frame, 6 carriers and box.

Price, \$7.50.

Anthony's Improved Enlarging Lantern.



THE great merit of this enlarging lantern is its simplicity of construction, economy, and practical usefulness.

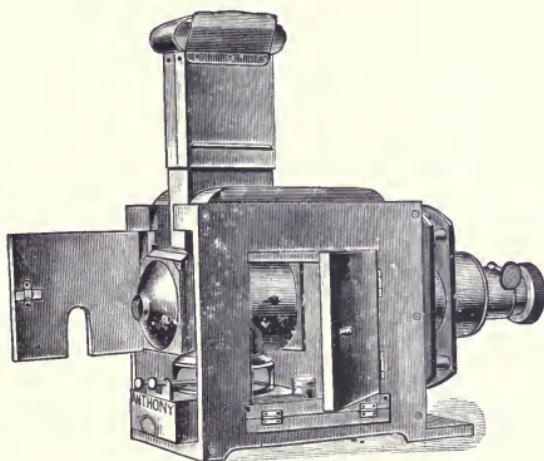
It is intended for making enlargements on gelatino-bromide rapid printing paper by artificial light, requiring only from *thirty to sixty seconds'* exposure for a life-size head.

Another purpose for which it admirably serves is that of a dark-room lantern. It is provided with non-actinic glass panels in the sides of the lantern. It can also be used as a copying camera for making lantern transparencies.

Grooves in the interior admit of changing the relative positions of the negative and condensing lenses. It is very compact, the size being $18 \times 15 \times 8$ inches.

Improved Enlarging Lantern complete (except Portrait Lens), . . .	\$25.00
Including one quarter-size E. A. Portrait Lens, . . .	33.75

Anthony's Triplexicon Magic Lantern.



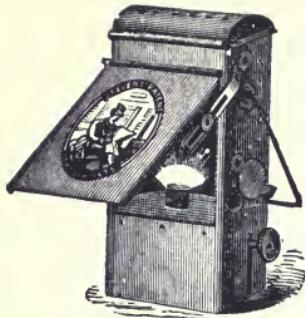
WE have seen many lanterns in our time, but in several respects this eclipses them all, and especially those for use with kerosene oil only. The lamp itself is completely shielded with a well made hood of Russia iron, and is provided with the patent triplex wick, which affords the utmost illumination obtainable with any oil light. The back and front of the hood are closed interiorally by glass plates, specially annealed to withstand extreme heat, and the rear one is again closed by perforated sheet iron, covered interiorally with a highly polished metallic reflector, back of which is inserted an eye piece of ruby glass. The latter enables one to always observe the condition of the flame and wicks, and regulate them without disturbing or discontinuing the action of the instrument. The chimney is made telescopic to pack more closely.

The diffusing lens, specially constructed for the purpose, is mounted on a cylindrical slide, to extend, if necessary, the focal distance, while the condensing lenses, which are of four-inch diameter and can be separated for cleaning, are inserted in a corresponding slide within the wooden case.

The case itself is quite compact, and appears very ornamental in its highly polished mahogany, with its little hinged ventilators on either side at the bottom. The metal front is burnished, and has a spiral spring adapter for the admission of the slides. A substantial wooden box contains all, and serves also as a table for the instrument while in use.

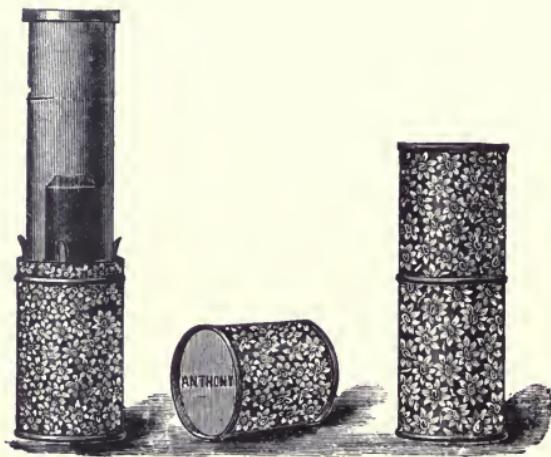
Altogether, this is the finest example of its kind we have yet seen. It will also serve admirably for enlargements with the gelatino-bromide paper. It is destined to become very popular. Price, \$35.00.

E. A. Pocket Ruby Lantern.



USED when putting dry plates into the holders, and also when developing them. Price, each, 60 cents.

The Tisdell Candle Ruby Light.



THE accompanying cut represents the Tisdell Candle Ruby Light for developing the most sensitive gelatine dry plates. One-half of a common sperm candle is the fuel required, consequently there is

No danger of an explosion.

No breaking of ruby chimney from over heating.

No oil to spill while traveling.

No disagreeable smell while at work in the dark room, and

No possibility of smoke.

The lamp is always ready for use and has nothing to get out of order. Its manipulation is extremely simple. A single glance at the lamp while open is sufficient to explain the method of its use to a perfect stranger. It is without exception the most perfect and *petite* construction in the shape of a ruby developing lamp ever introduced in the photographic market. Its outside measurement when packed for transportation is only $6\frac{3}{4} \times 2\frac{1}{2}$ inches, and its weight only twelve ounces.

Price, complete,	• • • • •	\$1.35
Extra Ruby Chimneys, 30 cents each.	• • • • •	

Catalogue for Amateurs.

Oil Lamp with Ruby Chimney.

THE accompanying cut represents an oil lamp for use in developing gelatino-bromide plates. It is expressly made for the purpose, and is intended for use with kerosene oil. The chimney is of ruby colored glass of the proper and most desirable tint, and surmounted with a movable top to intercept the upward radiation of the light of the lamp.

Price, \$1.50 each.
Extra Ruby Chimneys, 90 "



Anthony's Dry Plate Lantern

HAS separable parts, and all are easily and quickly adjusted. There are no hinges to become dislocated nor arm holes to wear out. It is easily lighted and extinguished; it requires but little care to keep clean; it can never get out of order; it takes but little oil, and it affords a good light.

Price, \$1.50
Extra Ruby Chimneys, 60 cents each.



The H. W. G. Candle Light.



THE FRAMEWORK about this candle is covered with both orange and ruby fabric, the combination making a safe and efficient light for the dark room and one which is agreeable to the eyes. It has no glass to break.

Price, \$2.00

**Anthony's Climax Dark
Room Lantern.**

(Patented.)

IT has three large illuminating surfaces and reflector. The glass is of the correct non-actinic hue. It is perfectly safe, and by all odds the most comfortable kerosene lantern to work by yet seen.

Price, \$2.00.



Gas Burner with Ruby Chimney.

For Attachment to any Ordinary Gas Bracket.



BY the annexed cut it will be seen that the patent argand burner has been so modified as to intercept the downward radiation of the light of the lamp; protection above is provided in the same manner as with the oil lamp. The chimneys of both gas and oil lamps, it should be particularly remembered, are not made of the ordinary ruby glass, but what is known in the trade as copper-flashed.

Price of the ruby gas burner and chimney, \$2.50.

Extra ruby chimneys, 30 cents each.

These burners are also manufactured on metal stands with a connection for rubber hose, by which they may be used at any distance from the gas bracket.
Price of stand extra, 50 cents.

The Aladdin Dark Room Lamp.

Patent Applied For.

THIS lamp is made for use with gas and may be fitted over any ordinary burner, or if preferred, may be had with iron base for use on the table in connection with rubber tubing.

It is fitted with a wick and nonactinic glass chimney which together give a beautiful yellow

light for dark room use, which is perfectly safe, without smoke or odor, more brilliant than the ordinary ruby light and both pleasant and restful to the eyes.

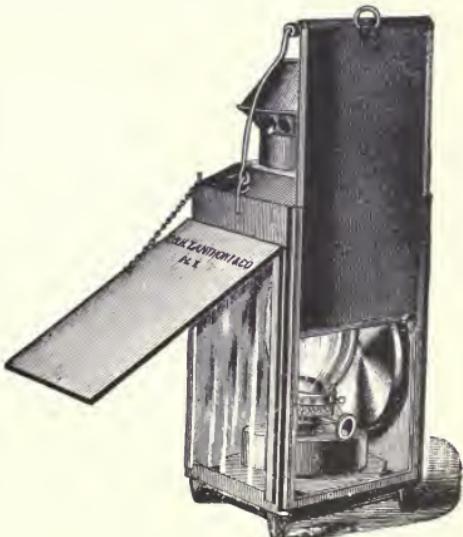
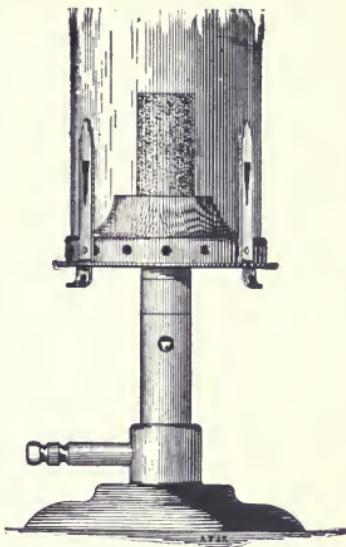
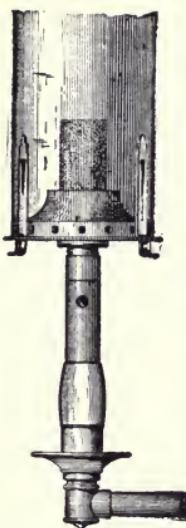
Price, including nonactinic amber chimney, extra brass tip and box of chemical wicks in wooden box complete, \$3.50. Extra chemical wicks sufficient for one thousand hours' lighting, per box, 35c. Extra nonactinic amber chimneys, each, 30c.

In ordering please specify whether bracket or table lamp is desired.

Anthony's Helios Dark Room Lantern.

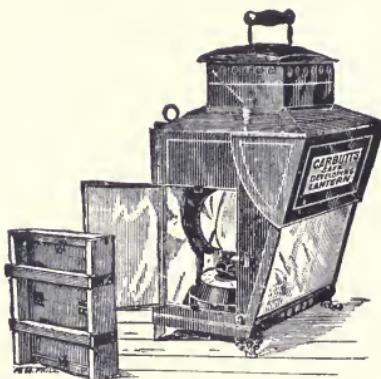
THIS is a new lantern for the dark room for those who desire more light than can be had from the ruby lamp. This lantern or lamp will be found to be all that can be desired. The draught is as perfect as can be. It has a glass $6\frac{1}{2} \times 8\frac{1}{2}$ inches, with a burner capable of great volume of light when desired. It is intended to fill a want long expressed by many, for a good dark room lantern at a reasonable price.

Price, \$4.00



Carbutt's Multum in Parvo Lantern.

Patented April 25, 1882.



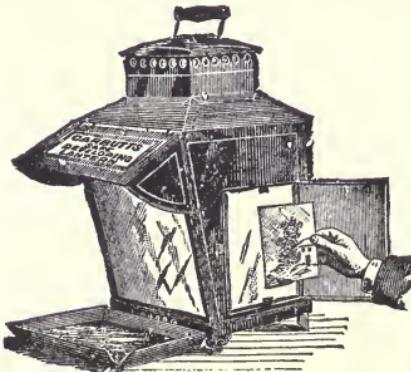
Lantern arranged for making positives by contact.

THE following are some of the advantages possessed by this Lantern: It saves your eyesight. It is simple and easy to manage, is not complicated, yet has three separate and distinct forms of light. It is adapted for the use of either oil or gas; is about nine inches square by fourteen high, with eight by ten ruby glass in front. Each lantern is provided with a coal-oil lamp, with improved patent burner and silvered reflector, which may be revolved in any direction and operated from the outside. By removing the revolving lamp bed, a hole will be found through which a gas burner can be introduced.

It can be used for seven or more different operations in photography, several of which have never been combined in any one lantern, to wit:

First.—A safe light for the preparation of gelatino-bromide emulsion.

Second.—A safe light for the coating of gelatino-bromide plates.



Lantern arranged for developing, and after fixing,
examining negatives by opal light.

Third.—A safe light for developing the most sensitive plates, while for preparing developer or doing other work the room can be instantly

Catalogue for Amateurs.

flooded with white light and as quickly changed to the red, giving abundance of light by which to develop the largest sized plates used. The adjustable hood effectually shields the eyes from the glare of the red light, a matter of the greatest importance to those having a large number of negatives to develop, or other work to perform necessitating red light.

Fourth.—An opal light by which to examine negatives or positives after fixing, enabling the operator to judge of their quality, thereby avoiding the necessity of leaving the dark room in search of white light.

Fifth.—A clear transparent light for making positives on glass (gelatino-bromide). This feature is a valuable one; any photographer can materially add to his revenue by making these most beautiful products.

Sixth.—The making of enlarged negatives from gelatine positives, placed in front of opal light.

Seventh.—The making of photo-micrographs with the clear, transparent light, which can readily be accomplished with the gelatino-bromide plate and the microscope.

Eighth.—By the adjustment of condensers and holder for slides and objective in front of the clear light, a very effective magic lantern is formed. Price, \$6, boxed ready for shipment.

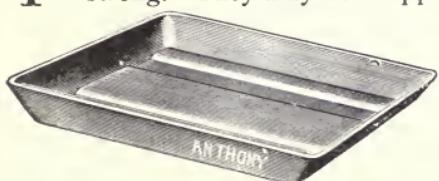
Japanned Iron Developing Trays.



For 4 x 5 plates,	.	.	.	\$0.20	For 11 x 14 plates,	.	.	.	\$0.60
" 5 x 8 "	.	.	.	.25	" 14 x 17 "	.	.	.	1.00
" 6½ x 8½ "	.	.	.	.30	" 18 x 22 "	.	.	.	2.00
" 8 x 10 "	.	.	.	.40	" 20 x 24 "	.	.	.	2.50
" 10 x 12 "	.	.	.	.50					

Celluloid Developing Trays.

THESE trays are of exceedingly light material and very tough and strong. They may be dropped or thrown upon the floor without injury, and their rounded corners render them very easy to work with. Another great advantage which they possess, is, that they are made in three distinct colors, and may thus be readily distinguished in the dark room.



They are made in four sizes only, as follows :

For Plates.	Price.	For Plates.	Price.
4 x 5 -----	\$0.50	6½ x 8½ -----	\$0.85
5 x 8 -----	.72	8 x 10 -----	1.15

Economy Rubber Tray.



As will be seen by the cut, the glass negative lies flat on the bottom of the tray, necessitating the least possible quantity of developer, and the depressed channel in bottom of tray is sufficiently deep to allow the finger or plate-lifter to engage firmly underneath the plate and remove it without risk of scratching. They are of polished hard rubber.

No. 2, 3½ x 4½, each,	\$0.28	No. 4, 5½ x 8½, each,	\$0.56
" 3, 4½ x 5½, " . . . . .	.28	" 5, 7 x 9, " . . . . .	.72
No. 6, 8½ x 10½, each,	<u>1.08</u>		

Ebonite Tray.

It is easily kept clean, and has a polished surface of high finish. Two slightly raised ridges on the bottom prevent the plate from adhering to the tray.



No. 1, for 3½ x 4½ plate, each,	\$0.24
" 2, ½ and 4 x 5 " " " . . . . .	.28
" 3, 4½ x 6½ " " " . . . . .	.40
" 4, 5 x 7 and 5 x 8 plate, each, . . . . .	.56
" 5, 6½ x 8½ plate, each, . . . . .	.72
" 6, 8 x 10 " " " . . . . .	.1.08
" 7, 10 x 12 " " " . . . . .	.1.56
" 8, 11 x 14 " " " . . . . .	.2.40

Papier Maché Trays.

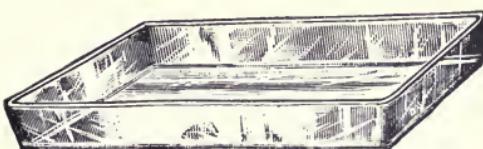
A RECENT importation of our own, of superior quality, and at reduced prices. These goods are very durable, light in weight and deep. They are black in color, and in general appearance not unlike the hard rubber tray.



No.		Each.	No.		Each
1.	3½ x 4½,	\$0.25	8.	14½ x 18½,	\$2.85
2.	4½ x 5½, . . . . .	.30	9.	16 x 20,	3.35
3.	5½ x 8½, . . . . .	.55	10.	19 x 24,	5.75
4.	7 x 9, . . . . .	.70	11.	23 x 27,	6.75
5.	8½ x 10½,	1.05	12.	26 x 30,	7.75
6.	10½ x 12½,	1.65	13.	28 x 34,	8.75
7.	12 x 14½,	2.10			

Catalogue for Amateurs.

Amber Glass Trays.



THESE TRAYS are non-actinic, clean and convenient.

5½ x 8½,	\$0.35		8½ x 10½,	\$0.75
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Porcelain Developing Trays.

THE dimensions given are for inside the bottom of the tray.

	Shallow.	Deep.		Shallow.	Deep.
5 x 7,	\$0.44	\$0.62	|	8 x 10,	\$0.82
5½ x 8½, . . . . .	.60	.75	|	10 x 12,	1.32
7 x 9, . . . . .	.66	.82			1.66

Non-Actinic Porcelain Trays.

THESE TRAYS, being made of porcelain, of a dark brown color, are very durable, and owing to their non-actinic property, are considered by many to be far superior to the ordinary white porcelain ware for developing purposes.

Sizes.		Deep.	Shallow.
6 x 8 for 5 x 7 plates,	each, \$0.56	\$0.40	
5½ x 8½ " 5 x 8 "	" .75	.60	
7½ x 9½ " 6½ x 8½ "	" .80	.65	
10 x 12 " 8 x 10 or 10 x 12 plates,	" 1.50	1.20	
11 x 14½ " 11 x 14 plates,	" 2.40	2.00	
14 x 17½ " 14 x 17 "	" 6.00	4.60	
15 x 19 " 14 x 17 or 14 x 18 plates,	" 7.00	5.50	

Climax Trays, for Developing Large Bromide Prints.



HAVING succeeded in producing the Cooper Enlarging Lantern at a very low rate, to use in making the print, we now offer the

Catalogue for Amateurs.

above article for use in developing and fixing the same. We guarantee it for the purpose specified, and can furnish the following sizes, viz.:

15 x 19, each,	.	.	.	.	\$3.00	26 x 32, each,	.	.	.	.	.	\$6.00
19 x 24, "	.	.	.	.	4.00	31 x 42, "	.	.	.	.	.	10.00
21 x 25, "	.	.	.	.	5.00	31 x 64, "	.	.	.	.	.	14.00
23 x 29, "	.	.	.	.	5.50	45 x 64, "	.	.	.	.	.	18.00

Hard Rubber Trays.



Original and Genuine Hard Rubber.

THESE goods, so long and favorably known to the profession, and which have met with universal approval, are now offered at the following reduced prices:

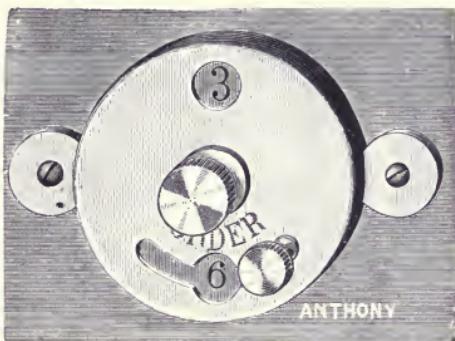
4½ x 5½, each,	.	.	.	.	\$0.50							
5 x 7 "	.	.	.	.	.60							
5½ x 8½, "	.	.	.	.	.72							
7 x 9, "	.	.	.	.	.85							
8½ x 10½, "	.	.	.	.	1.15	10 x 12, each,	.	.	.	.	.	\$3.25
10½ x 12½, "	.	.	.	.	1.80	12 x 16, "	.	.	.	.	.	4.50
12 x 16, "	.	.	.	.	2.50	15 x 18, "	.	.	.	.	.	5.75
15 x 18, "	.	.	.	.	4.10	18 x 22, "	.	.	.	.	.	7.50
18 x 22, "	.	.	.	.	5.35	19 x 24, "	.	.	.	.	.	8.25
21 x 26, "	.	.	.	.	7.50	21 x 26, "	.	.	.	.	.	10.00

Glass Patterns.

Carte de Visite—Oval, Arch or R. C., each,	.	.	.	.	.	.	.	.	.	.	.	\$0.25
Stereo. Cards—Square or Arch,	"	.	.	.	.	.	.	.	.	.	.	.40
Victoria Cards—Oval, Arch or R. C.,	"	.	.	.	.	.	.	.	.	.	.	.40
Imperial Cards—"	"	"	"	"	"	.	.	.	.	.	.	.50
4 x 5,	.	.	.	.	.	.	.	.	.	.	.	.50
5 x 3,	.	.	.	.	.	.	.	.	.	.	.	1.00
6½ x 8½, Oval or Square,	.	.	.	.	.	.	.	.	.	.	.	1.25
7 x 9, "	"	"	"	"	"	.	.	.	.	.	.	1.50
8 x 10, "	"	"	"	"	"	.	.	.	.	.	.	2.00

Catalogue for Amateurs.

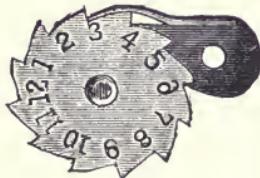
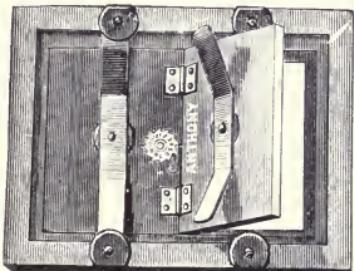
Allderige's Compound Printing Register.



THIS neat article can be readily attached to the door of any printing frame, and has two dials, one of which shows how many prints are to be made from the negative, and as each one is removed, it is recorded on the other dial. By this means the count can always be kept correctly. They are all nickel plated, and the cut shows the exact size.

Price, per dozen, 75c.

Improved Printing Frames.



OUR PRINTING FRAMES are now provided, in all sizes, with the new tally without addition to price. As will be seen from the cut, the numerical wheel is revolved, being held firmly in position by a spring. These printing frames are made of cherry, with superior brass springs, constructed on the most scientific principles. The springs are riveted to the backs and a brass washer is placed under the spring to prevent abrasion of the wood in turning it.

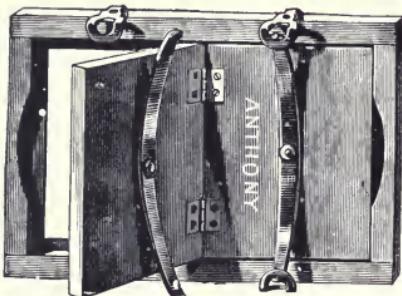
For Plates.

For Plates.	For Plates.
3½ x 4½, each,	36c. 5 x 7, each, 50c.
4 x 5, "	38c. 5 x 8, " 52c.
4½ x 5½, "	40c. 6½ x 8½, " 60c.
4½ x 6½, "	42c. 8 x 10, " 75c.

Catalogue for Amateurs.

Fairy Printing Frames.

(Patented Dec. 8, 1885.)



COMBINING strength, rigidity and lightness, and so constructed that the springs lock into the eyes, or catches on the sides, rendering it impossible for them to slip from position. They are handsomely finished, and much lighter and more compact than any other style.

For Plates.	For Plates.
3½ x 4½ each,	45c. | 5 x 7, each,
4 x 5, "	45c. | 5 x 8, "
4½ x 5½, "	45c. | 6½ x 8½, "
4½ x 6½, "	55c. | 8 x 10, "
	60c. | 60c. | 65c. | 75c.

No larger sizes made of this style.

Anthony's Hydrochinone Developer.

(Ready for use.)

THE excellent qualities of this article, and its convenience for use, are possessed by no other ready prepared developer in the market.

For use, it is simply poured into the tray, and when development is finished, may be filtered and returned to the bottle. This can be repeated many times. It yields a negative of fine printing color, and without fog. Full directions accompany each bottle.

Dr. H. W. Vogel, of Germany, writes in the highest terms of Hydroquinone as a developer, praising particularly its advantages for negatives of widely differing relative exposures.

Price, per eight ounce bottle,	30 cts.
" pint bottle,	55 "

Catalogue for Amateurs.

Newton's Giant Developer.

For Gallery or Out-door Work.

THIS NEW DEVELOPER, introduced by Prof. Henry J. Newton, is unlike any similar agent, inasmuch as it works from the first, until all used up, with full vigor and does not slow up after developing a few plates as most developers are apt to do.

The "Giant" produces negatives with the greatest brilliancy, clear shadows and a splendid, quick printing color.

It is admirably adapted to general work, yielding the most brilliant negatives, transparencies, or bromide prints. Perfect freedom from stain with rapidity of action, and a very strong tendency to do what is most desired of a developer, *i. e.*, continue its action until the development is completed, combine to make it just what is required for the photographer, either professional or amateur.

Put up in eight ounce bottles,	30 cts.
Sixteen ounce bottles,	55 "

Full directions with each bottle.

No preparation or dilution is required. It is sold ready for use.

Anthony's New Economical Developer.

THIS DEVELOPER is put up in a highly concentrated form, keeps well, and will perform nearly twice the work of any similar developer. Being in one solution, its management is easily understood by the beginner, who is often "all at sea" with developers put up in separate solutions. It stands unrivaled as a dry-plate developer, and is extremely quick in action. It can be used with any brand of plates, giving beautifully soft negatives. To those who are desirous of avoiding the trouble of preparing their own developers it will commend itself on the very first trial; and that it will figure as a valuable item in the travelers' photographic outfit, goes without saying. All who have used this developer thus far express themselves as delighted with it. With this solution under-exposed plates will bear prolonged and forced development without showing the least tendency to become veiled or hazed in the shadows, as is so common with most developers.



Price, per bottle,	40 cts.
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Ferrous Oxalate Developer.

Ready for Use.

FOR dry plate development, and specially adapted for developing Anthony's Reliable Bromide Paper.

Price per package (two bottles), 50 cents.

Cooper's Concentrated Developer.

THIS DEVELOPER is from another formula put up in concentrated form, which also produces beautiful negatives and allows very considerable latitude of exposure; it never becomes muddy and can be used repeatedly with fine effect, over-exposed plates producing better results if developed in old developer than new. It is sold ready mixed and only needs to be diluted with water.

Be sure that the label bears the trade mark.



None other is genuine.

Fifty 8 x 10 plates can be developed with one bottle of developer.

Price, per bottle, 50 cts.

Stanley's Concentrated Developer.



IN PACKAGE containing 16 ounces Concentrated Developer, in 8-ounce bottles, one having the pyrogallic solution, the other the alkali, thus enabling the operator to proportion them as desired.

The contents of each bottle are in highly concentrated form and require merely the addition of water to reduce to normal strength.

TRADE MARK

Price, per package, 50 cts.

Catalogue for Amateurs.

Anthony's Climax Developer.

For Dry Plates and Films.

THIS Developer possess every good quality that can be desired. It is very effective and yields negatives of great brilliancy, combined with softness, bringing out the finest details. Being in concentrated form, it merely requires the addition of water and Bro. Potass. In this diluted form, it can be used several times before being exhausted. It will not stain the negatives, and any degree of intensity can be produced. It is equally good for instantaneous or time exposures. Full directions accompany each bottle.

8 ounce Bottles.....	each, 30 cents.
16 " "	" 55 "

Anthony's Eikonogen Developer

IS manufactured from the most powerful developing agent known, and its results are of a beautiful bluish black color, which renders it easy to judge of the quality of the negative. By its use, the time of exposure may be made considerably less than with any developer now in use, and the resultant negative will be found to be full of detail, with the high lights crisp and brilliant.

It is prepared in solution ready for use, and its keeping qualities are excellent. It may be used several times over, and for all but very much under exposed plates, old developer is better than new.

Price, per 8 oz. Bottle.....	30 cents.		Price, per 16 oz. Bottle.....	55 cents.
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Acid Sulphite of Soda.

IS especially adapted to use in the fixing bath, rendering it acid and very considerably reducing the time required for fixing; it also gives exceptionally clear and stainless negatives.

Acid Sulphite may also be used as a preservative of pyro, hydroquinone or eikonogen in developers, but not in those developers which contain all the ingredients in one bottle. Where used in this way it entirely replaces the use of ordinary sulphite of soda in the two solution developer.

Price, per pint Bottle.....	40 cents.
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Anthony's Improved Concentrated Hydroquinone Developer,

AHIGHLY concentrated form of the above developer, which is put up in 2-ounce bottles, and ready for instant use by the addition of 6 oz. of water.

Price, per Bottle.....	30 cents.
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Catalogue for Amateurs.

Anthony's Pure Chemical Tablets.

Something New and Practicable.



FOR convenience in the compounding of developers, we have prepared the following chemicals in the form of *tablets*, each tablet containing a specified number of grains. We believe that they will be found very valuable, particularly among amateurs, who, by their use, will be enabled to dispense entirely with the troublesome method of weighing for each formula. We put them on the market with confidence that they will fill a long felt want.

PRICE PER BOTTLE.

$\frac{1}{2}$ oz. Hydrochinon,	(about 54.4 grain Tablets),	.	.	.	\$0.50
$\frac{1}{2}$ " Pyrogallic Acid,	" 47, 5 "	"	.	.	40
1 " Carb. Potass.,	" 87, 5 "	"	.	.	20
1 " Sulphite Soda,	" 87, 5 "	"	.	.	20
1 " Carb. "	" 87, 5 "	"	.	.	20
$\frac{1}{2}$ " Bromide Potass.,	" 106, 2 "	"	.	.	20

Anthony's Compound Toning Tablets.

FOR convenience in toning silver prints these tablets will be found unequalled. One tablet dissolved in 7 oz. water and combined with $\frac{1}{2}$ oz. of ordinary gold solution makes a toning bath which will produce beautiful prints and save the operator much time in preparation.

Anthony's Compound Toning Powders.

SAVE TIME and hence money. The solution is made ready in a few moments, and can be used by anyone. Try them and you will continue to use them. They are put up in

Boxes of 12 Powders, price,	\$.15
" 24 "	.25
" 48 "	.40

DIRECTIONS FOR USING.—Dissolve one bottle of Anthony's Dry Gold in $7\frac{1}{2}$ ounces of pure water.

TO USE.—Dissolve one of the packages of toning powder in 7 ounces of lukewarm water, and add 1 ounce of the gold solution. As the prints exhaust the solution add more of the gold and powder.

This is an article of real merit, as those using will testify.

Patent Metallic Protecting Cases.

With Ground Stopple Bottle and Graduated Tumbler for Chemical Solutions.

THESSE CONTRIVANCES are a great convenience to either amateur or professional photographers who wish to carry solutions of developer, etc., in their travels without possibility of breakage or leakage.

The cases are drawn from solid metal and made of even thickness throughout, being corrugated for the purpose of giving them strength to resist crushing or indentation, as they are very light. This corrugation answers the purpose of a male and female screw, whereby the top of the case is screwed down until it rests on the glass stopple of the bottle and thus keeps it tightly in its place and prevents the bottle from rattling about in the case. The cut shows the case as it appears when open, indicating the style and position of the graduated tumbler which is furnished with the three last sizes.

They are nickel finished and are very attractive in appearance.



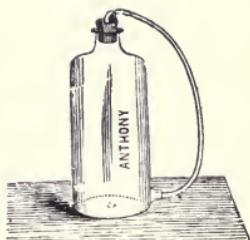
No. 1. Diameter, $1\frac{5}{8}$ in.; length, $3\frac{1}{2}$ in.; weight, $4\frac{1}{2}$ oz., furnished with 1 oz. bottle, each,	\$.50
No. 3A. Diameter, 2 in.; length, $5\frac{1}{2}$ in.; weight, $7\frac{3}{4}$ oz., furnished with 4 oz. bottle, with tumbler, making $\frac{1}{4}$ pint flask, each, . . . . .	.85
No. 4A. Diameter, $2\frac{1}{2}$ in.; length, 7 in.; weight, 14 oz., furnished with 8 oz. bottle, with tumbler, making $\frac{1}{2}$ pint flask, each,	1.10
No. 13A. Diameter, $2\frac{7}{8}$ in.; length, 6 in.; weight, 17 oz., furnished with 8 oz. bottle, with tumbler, making $\frac{1}{2}$ pint flask, each,	1.20

Anthony's Developing Bottle.

For Oxalate Developer.

THIS DEVELOPING BOTTLE is a great convenience to the amateur or professional photographer. It is provided with a rubber tube by which the developer is drawn from the bottom of the bottle as required. A thin layer of oil on the surface prevents chemical action from contact with the air. It will soon save its cost in the quantity of developer economized.

Quarts, 75 cts.

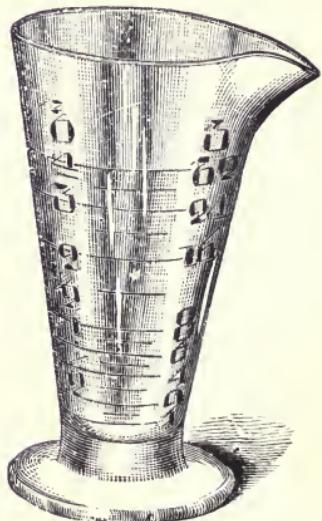


Anthony's Superior Molded Graduates.

Warranted Accurate.

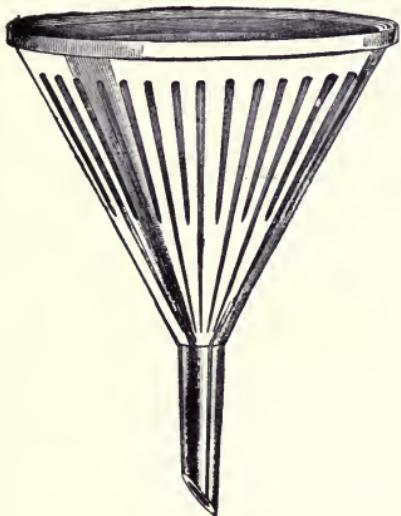
COMPLAINT is frequently made of the ordinary glass graduate that it is not accurate, and sometimes one marked 16 oz. will show a variation of 1 oz. either way.

The Anthony Molded Graduate, however, can be depended on *every time* to be thoroughly accurate in its markings and to hold full measure as indicated by scale marked on each. They are all manufactured at the same place and by skillful workmen, and are guaranteed.



Minim, each,	\$0.20
2 dram, " . . . . .	.25
½ ounce, " . . . . .	.20
1 " " . . . . .	.20
2 " " . . . . .	.20
3 " " . . . . .	.25
4 " " . . . . .	.30
6 " " . . . . .	.35
8 " " . . . . .	.45
12 " " . . . . .	.60
16 " " . . . . .	.75
24 " "	1.00
32 " "	1.25

The Patent Fluted Funnel and Filter.



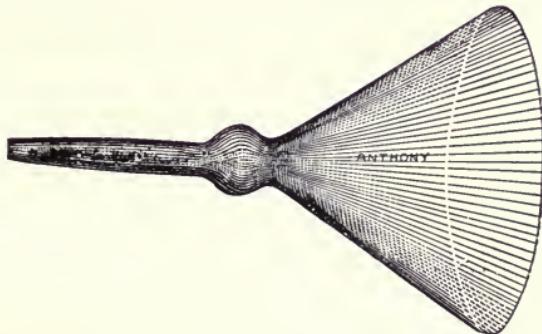
THESE are the latest and best glass funnels ever made. They are very strong; are made in molds; have solid glass ribs on the inside, running vertically as shown in cut, thus forming passages through which the solution descends freely after passing through the paper, and accomplishing the filtration in a fraction of the time heretofore required. Another advantage of this funnel is that the outside of the neck is fluted and the lower end beveled, so as to prevent choking up in the neck of the bottle, and overflowing.

$\frac{1}{2}$ pint,	.	.	.	.	.	.	.	.	.	.	.	Each, \$0.12
$\frac{1}{4}$ "	.	.	.	.	.	.	.	.	.	.	.	" .15
1 "	.	.	.	.	.	.	.	.	.	.	.	" .20
1 quart,	.	.	.	.	.	.	.	.	.	.	.	" .30
2 "	.	.	.	.	.	.	.	.	.	.	.	" .45

Glass Funnels.

$\frac{1}{2}$ pim.	.	.	.	.	.	\$0.12	|	2 quarts,	.	.	.	.	\$0.25
1 "	.	.	.	.	.	.15	|	1 gallon,	.	.	.	.	.50
1 quart,	.	.	.	.	.	.20	|	2 gallons,	.	.	.	.	.75

Anthony's Combined Funnel and Filter.



IN this combination of funnel and filter the bulb retains the filtering cotton in such a manner as to obviate the difficulty experienced in the ordinary funnel from the cotton being compressed too tightly. A glance at the cut will readily explain its advantages.

Pints, each, . . . 50c. | Quarts, . . . 62c. | Half gallon, . . . \$1.00

Glass Stirring Rods.

8 inch, each,	\$0.10	15 inch, each,	\$0.20
12 " " . . . . .	.15	18 " " . . . . .	.25

Both ends are glazed finished.

U. S. Photo Clip.

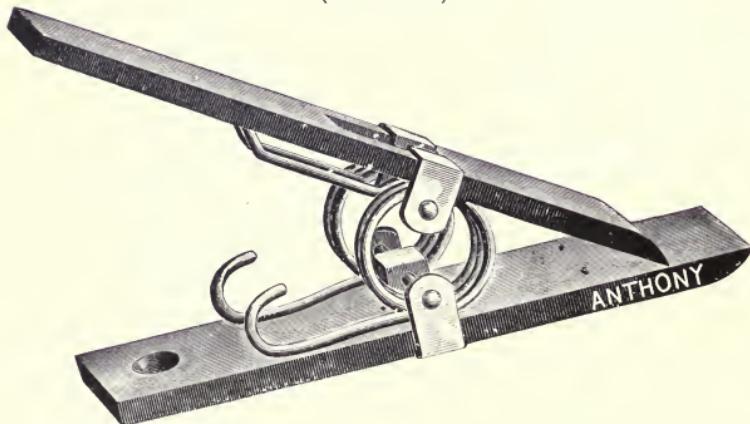
The latest and cheapest serviceable Photo Clip in the market.



THIS CLIP is exceedingly strong, being made of hard wood, with heavy wire springs, and is provided with a hook. The quality of stock employed in its construction is of the best, and the price lower than for any other article of its kind.

Price per gross,	\$2.50
Price per dozen,	25

Allderige's Adjustable Photo Clip. (Patented.)



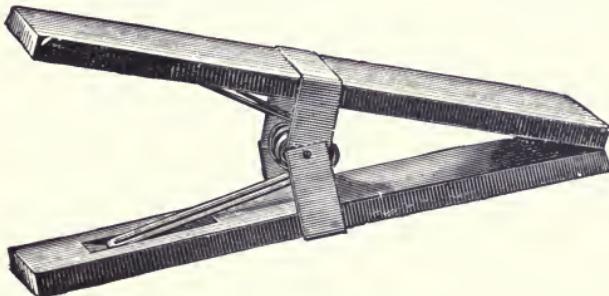
THE ILLUSTRATION shows the clip with one end extended. This article, from its form of construction, is much more durable

Catalogue for Amateurs.

than any other adjustable clip in market. The change from long to short clip is effected in an instant, and there is nothing about it to break or get out of order. The cut represents the exact size.

Price, per dozen 25 cents | Price, per gross \$2.50

Lockwood's Patent Photo Clips.



THESE are the most desirable articles of their class to be found in the market, being substantially made in the best manner, and the fact that they never break or give way in any particular must recommend them to all. The springs are made of first quality brass wire, and the wood is very hard and durable. They are made in two sizes and various styles, as follows, the cut showing the exact size of the large clip:

	Full Gross.	Per Doz. Cents.
No. 15 A Small, $2\frac{1}{2}$ inches, plain, chamfered,	\$4.80	. 45
" 15 B " " with hook "	5.50	. 50
" 15 " " " and hole chamfered,	6.00	. 55
" 1 Large, plain,	6.00	. 55
" 14 " with hook,	6.80	. 60
" 17 " " hole chamfered,	7.00	. 65
" 18 " " hook and hole chamfered,	7.20	. 70

The Bradfisch Aristotype Paper.

THIS PAPER is unequaled by any other in the market for quickness of printing, for bringing out the finer details of a negative, and for brilliancy and depth of tone.

It may be finished with either a flat or glacé surface and may be toned in several shades of color. Its keeping qualities are excellent and the results obtained with it are unsurpassed. The toning and fixing may be done in a combined bath thus necessitating but one operation.

Size.	Per Doz.	Size.	Per Doz.
$3\frac{1}{4} \times 4\frac{1}{4}$	\$.20	5×8	\$.45
4×5 .....	.25	$6\frac{1}{4} \times 8\frac{1}{2}$ .....	.70
$3\frac{1}{4} \times 5\frac{1}{4}$ (cabinets trimmed) .....	.30	8×10 .....	.90
$4\frac{1}{4} \times 6\frac{1}{2}$ (" untrimmed) .....	.35	20×24	4.00 per half doz... \$2.25
5×7 .....	.40	20×24	per sheet..... .40

Anthony's Extra Glossy Ready Sensitized Albumen Paper.

THIS PAPER was expressly manufactured for and introduced by us to give to those who have not the skill, time, inclination or appliances to sensitize photographic paper preparatory to printing, an article of the finest quality and of uniform sensitiveness.

3½ x 4½ inches, in light tight boxes of 2 dozen, per box,	\$0.30
4 x 5, " " " 2 " "	.45
4½ x 6½, " " " 2 " "	.55
5 x 7, " " " 2 " "	.80
5 x 8, " " " 2 " "	.85
6½ x 8½, " " " 2 " "	1.10
8 x 10, " " " 2 " "	1.65
18 x 22, " per sheet, 30 cents ;	per doz., 3.30

To save loss, boxes are not broken.

Anthony's Patent Improved Reliable Bromide Paper

For Contact Printing and Enlargements.

Requires neither Toning nor Sunlight.

THIS PAPER being prepared with the same substance as used on the gelatine dry plates, requires no other chemicals for its development than the ferrous oxalate developer employed in the development of the negative, which is a great convenience in traveling. It must consequently always be used in a room free from actinic light. It yields the strongest blacks, with a fullness of detail that is quite surprising. It is made in a quick emulsion for use with artificial light; and also in a slow, for use with daylight. It can be had either quick or slow, in Light Smooth (L. S.), Heavy Smooth (H. S.), or Heavy Grained (H. G.), as may be desired. Use it once and you will have no other.

CUT SHEETS.

Size,	Per Doz.	Size,	Per Doz.
3½ x 4½-----	\$0.25	12 x 15-----	\$3.35
4 x 5-----	40	14 x 17-----	4.50
4½ x 5½-----	50	16 x 20-----	6.00
4½ x 6½-----	55	17 x 20-----	6.40
4½ x 6½-----	60	17 x 21-----	6.74
5 x 7-----	65	18 x 22-----	7.50
5 x 7½-----	70	20 x 24-----	9.00
5 x 8-----	75	22 x 27-----	11.25
6½ x 8½-----	1.00	24 x 30-----	13.50
8 x 10-----	1.50	25 x 30-----	14.00
10 x 12-----	2.25	24 x 36-----	16.00
10 x 14-----	2.65	30 x 40-----	22.50
11 x 14-----	3.00	40 x 60-----	45.00

Catalogue for Amateurs.

IN ROLLS (10 Yards.)

	Per Yd.		Per Yd.
10 inches wide,	\$.56	20 inches wide,	\$1.12
11 " "	62	22 " "	1.24
12 " "	68	24 " "	1.35
14 " "	79	25 " "	1.40
16 " "	90	30 " "	1.68
18 " "	1.00	31 " "	1.74

EXTRA LARGE SIZES.

	Per Yd.		Per Yd.
33 inches wide,	\$1.85	37 inches wide,	\$2.10
35 " "	1.96	41 " "	2.30

When the slow paper is wanted, please mention it particularly in the order, as otherwise the quicker grade will be sent. Price same for both.

GRADES.

H. G.—Heavy Grain. H. S.—Heavy Smooth. L. S.—Light Smooth.

This paper was formerly made in two grades: quick, for use with artificial light, and slow, for use with daylight; but instead of these we now make a Medium Grade, which works equally well with either artificial light or daylight.

Pizzighelli Direct Printing Paper.

THIS is a new production which requires neither developing nor toning and gives a beautiful print, with deep rich black tones of color, at a minimum of labor. After printing, the paper is soaked for a few moments in dilute muriatic acid and washed in two or three changes of water and the result is absolutely permanent.

Price per package of one dozen sheets.

4 x 5 inches,	\$.40
5 x 7 " . . . . .	.65
5 x 8 " . . . . .	.75
6½ x 8½ "	1.00
8 x 10 "	1.50

E. A. Ferro-prussiate Paper, for Making Blue and White Pictures.

THIS requires no chemicals in its development. It is merely printed for about ten minutes in the sunlight and then washed thoroughly in clean water.

Catalogue for Amateurs.

This paper is extremely simple in its manipulation, and therefore very convenient for making proofs from negatives. It is also adapted for the reproduction of mottoes, plans, drawings, manuscript, circulars, and to show representations of scenery, boats, machinery, etc., for an engraver to copy from. The rapidity with which a print can be made with this paper is, for numerous purposes, and to men in some occupations, a very great recommendation in its favor.

$3\frac{1}{2}$ x $4\frac{1}{2}$	inches, in light-tight boxes of 2 dozen, per box,	.	.	\$0.16
4 x 5	" " 2 "	.	.	.20
$4\frac{1}{2}$ x $6\frac{1}{2}$	" " 2 "	.	.	.30
5 x 7	" " 2 "	.	.	.35
5 x 8	" " 2 "	.	.	.40
$6\frac{1}{2}$ x $8\frac{1}{2}$	" " 2 "	.	.	.56
8 x 10	" " 2 "	.	.	.68
18 x 22	per sheet, 13 cents; per dozen,	.	.	1.50

To save loss, boxes are not broken. In full rolls of 10 yards each, 30 inches wide, \$2.40 per roll.

Anthony's Safety Cans.

For preserving sensitized albumen paper.

No. 1, for paper up to $4\frac{1}{2}$ x $6\frac{1}{2}$, each,	\$1.35
No. 2, " " 8 x 10 "	1.50
No. 3, " " 18 x 22 "	2.00
No. 4, " gallery size, full sheets, each,	3.00

Success Sensitized Paper Preservative.

(PATENT APPLIED FOR.)

BY its use, paper can be silvered, regardless of the weather, and kept two weeks, or longer, white and in perfect working condition.

It will pay for itself twice over every month. It is highly indorsed by the leading American photographers.

Price, per package.... \$2.00



Anthony's Climax Platinum Paper

IS a new form of direct printing paper, manufactured under the formula of Captain Pizzighelli, which is susceptible of extremely rich, soft, black tones. By the use of this paper, either under or over exposed prints may be intensified by redevelopment and beautiful results obtained. The fact that this paper is manufactured by us, and in this country, makes it possible for us to keep it freshly made and enables us to guarantee its quality, which is not possible with foreign goods.

PRICE, PER PACKAGE OF ONE DOZEN SHEETS.

4 x 5	.....	\$0.40	|	5 x 8	.....	\$0.75
5 x 7	.....	.65	|	$6\frac{1}{2}$ x $8\frac{1}{2}$	.....	1.00
8 x 10	.....				\$1.50	

Catalogue for Amateurs.

Developing Outfits for Making Negatives.

THESE OUTFITS contain everything necessary for developing one dozen negatives, including trays, graduates, funnels, etc., that will last for years, and sufficient chemicals for making several dozen additional negatives.

4 x 5 Developing Outfit.—Tisdell Lamp; 1 dozen dry plates; 2 developing trays; Stanley's Concentrated Developer; hyposulphite of soda; bromide potass.; alum; 1 funnel; 3 glass graduates; focusing cloth; scales and weights; developing fork; bottle of negative varnish. Price, \$5.25.

4½ x 6½	Developing Outfit, as above,	.	.	.	.	.	.	\$5.25
5 x 8	" " "	.	.	.	.	.	.	6.50
6½ x 8½	" " "	.	.	.	.	.	.	7.00
8 x 10	" " "	.	.	.	.	.	.	8.00

Printing Outfits.

THESE OUTFITS include everything necessary for making and mounting two dozen prints from the negatives, and chemicals sufficient for several dozen more.

4 x 5 Printing Outfit.—4 dozen 4 x 5 sensitized albumen paper; blue litmus paper; chloride gold (A); bicarbonate of soda (B); chloride of sodium (D); 1 pound hyposulphite soda; 1 printing frame, 4 x 5; 1 4 x 5 papier maché developing tray; one 2 oz. graduate; 1 5 x 7 porcelain tray (deep); 1 jar of paste; 1 hard rubber set and bound paste brush; 1 glass pattern, 4 x 5; 1 straight trimmer; 24 sheets 6½ x 8½ card-board. Price, \$4.75.

4½ x 6½	Printing Outfit, as above,	.	.	.	.	.	.	\$5.75
5 x 8	" " "	.	.	.	.	.	.	6.00
6½ x 8½	" " "	.	.	.	.	.	.	6.75
8 x 10	" " "	.	.	.	.	.	.	7.75

Dispensing Scales and Weights.

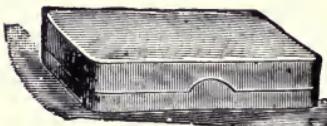
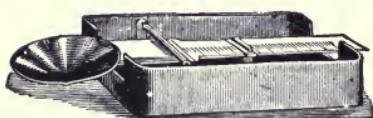
THESE are made for weighing small quantities only—grains, scruples and drams. With French weights they are equally useful for weighing grams, etc. Price, in wooden box, with a set of apothecaries' weights, 75 cts.



Dispensing Scales, 8 inch Beam.

THESE scales are similar to the preceding but of larger size, adapted to weighing grains, scruples, drams and ounces. Price, with weights, \$1.50.

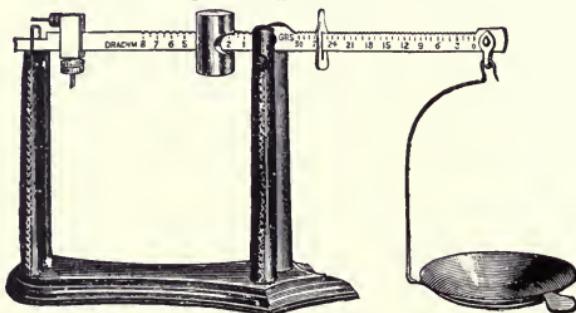
Patent Pocket Pyro Scales.



THESE scales are made with a view to being carried in the pocket and occupy, when closed, a space only $2\frac{1}{4} \times 1\frac{1}{2}$ inches. They have no weights to lose, are neat, handy and extremely useful, their capacity is from $\frac{1}{2}$ to 20 grains. Price, complete, \$1.00.

New Patent Dispensing Scale.

No Weights. Quickly Adjusted.



THIS, we believe, will fill a long felt want. It has a 9-inch nickel-plated beam, neatly mounted on a japanned iron standard. The front end of the beam weighs from one to thirty grains, the other end weighing from one-half to eight drams, or one ounce, and is very accurate. The pan is movable and has no side bar to interfere. We guarantee them in every respect. Price, \$5.00

Catalogue for Amateurs.

ornament and a very convenient method of showing specimen pictures in the studio. This admits of the photos being burnished, which cannot be done with the ordinary amateur album. They are sold in sets of two gangs. Price per set, 50 cents.

Dry Plate Safety Box.

IN outward appearance resembling an ordinary negative box, though not so deep; but within, instead of grooves, it has a close fitting cover lined with black velvet, so as to guard the plates against any possible reflections. Thus plates of any size up to 8 x 10 may be removed from the original packages, that should always be opened in the dark room, and safely kept in this box until transferred to the plate holder.

PRICES.

4 x 5,	\$1	|	5 x 8,	\$1.25
6½ x 8½ or 8 x 10,			\$1.50	



Negative Boxes.

FOR storing negatives. They are smoothly made, with grooves each side, and have nicely rounded corners.

Prices, holding 24 plates, each :

3½ x 4½,	\$0.65
4 x 5, . . . . .	.65
5 x 8, . . . . .	.85
6½ x 8½, . . . . .	.95
8 x 10,	1.10

Negative Preservers.

THESE goods consist of a heavy manilla envelope, very carefully made, with flat seams and having blanks printed for registering number, subject and description of negative enclosed. They are unexcelled for convenience and safety in packing negatives away and finding them when wanted. In packages of 25, packed 500 in a box. Prices as follows :

No. 1,	For negatives,	3½ x 4½, per 1,000	. . . . .	\$2.70
" 2,	" "	4½ x 5½, "	. . . . .	3.15
" 3,	" "	4½ x 6½, "	. . . . .	3.35
" 3½,	" "	5 x 7,	. . . . .	4.00
" 4,	" "	5 x 8,	. . . . .	4.10
" 5,	" "	6½ x 8½,	. . . . .	4.70
" 6,	" "	8 x 10,	. . . . .	6.20
" 7,	" "	10 x 12, per 100.	. . . . .	1.40
" 8,	" "	11 x 14,	. . . . .	1.60
" 9,	" "	14 x 17,	. . . . .	2.75

The Anthony Self-Changing Shower Washing Box.

(Patent applied for.)

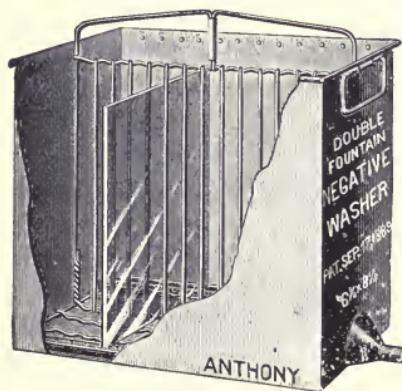
THE ANTHONY SELF-CHANGING SHOWER WASHING BOX for dry plate negatives is a nicely constructed and convenient apparatus. Made substantially of zinc inside and out, it has interior grooves in which either 5 x 8 or 8 x 10 negatives may be placed. When the negatives are introduced, the hose is attached to a faucet, the lid is now closed and locked if desired, and the water turned on.

It will be seen that the water enters the washer from above, and that the inside of the lid is made in the form of a perforated fountain, which discharges a spray over the plates. When the negatives are entirely submerged, the water is all drawn off by means of a self-acting siphon, and the process of showering is repeated.

With this apparatus the hypo can be thoroughly eliminated from the gelatine film in from fifteen minutes to half an hour. The change of water is continuous. Price, \$5.



Moody's Double Fountain Negative Washer.



THIS is a new and thoroughly practicable arrangement for washing negatives, and consists of an outer box of heavy metal, provided with a tube at bottom, for attachment of rubber hose, which distributes the water through perforated pipes running lengthwise of the box, the perforations of which are on the *inside* of pipe and at such an angle to each other as to *cause the streams of water to cross each other in an upward direction* in the middle of the box, which results

in a constant *upward current* to the overflow pipe, thus insuring a perfect elimination of free chemical agents from the negatives.

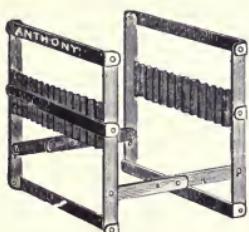
A removable wire rack, as shown in the cut, serves to hold fifteen negatives in an upright position within the box.

These Negative Washers are made in three sizes only, but *may be used for any size of plate smaller than the one named, without adjustment.*

5 x 8 . . .	\$4.50 |	6½ x 8½ . . .	\$5.00 |	8 x 10 . . .	\$5.50
Rubber hose and coupling for same, \$1.50 extra.					

Catalogue for Amateurs.

Coe's Negative Washing Rack.



A convenient and compact washing rack for negatives which, when not in use, may be folded together to occupy extremely small space. It is made of metal and is kept open by a metal button locking into a slot.

Price each, \$1.00

Anthony's Folding Negative Rack.

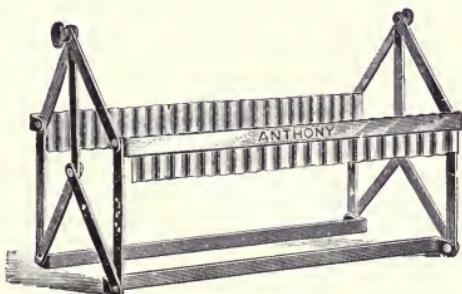


ANTHONY'S FOLDING NEGATIVE RACK, for holding 24 plates while drying; when not in use it can be folded and hung on a nail. Price, 40 cents each.

Small size, similar to above, for twelve $2\frac{1}{2} \times 2\frac{1}{2}$, lantern slide or 4×5 negatives, 50c.

Same as larger one, mentioned above, but with grooves formed of corrugated iron. Price, 50 cents each.

Adjustable Negative Washing Rack.



THIS Negative Rack is made entirely of metal and is fastened at the joints with rivets which allow it to be opened or closed, to take any sized negative desired, the joints are held in place after being opened to the proper size, by set screws at either end. Price, each, \$1.50.

Anthony's Adjustable Developing Fork.



AS seen by the cut, this is for holding the dry plate during developing and washing. It entirely prevents soiling of hands, and by its aid the plate is easily examined and returned to solution, saving necessity of ridges and elevations on bottom of tray to prevent capillary attraction. They are made in two sizes, nickel plated.

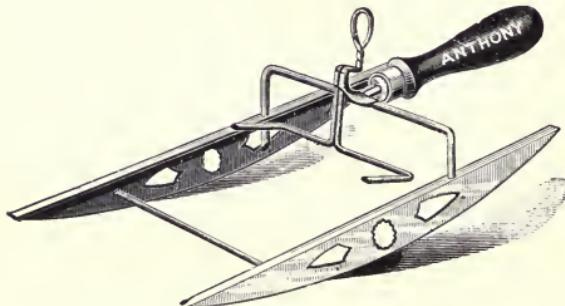
No. 1, for plates $3\frac{1}{2} \times 4\frac{1}{2}$ to 5×8,	. . . . .	Each, 60 cts.
" 2 " 4×5 to 8×10,	. . . . .	" 90 cts.

The Skeleton Non-Adjustable Developing Fork.

THESE resemble in shape the adjustable forks, but are rigid. They are made of nickel wire.

For 4×5 or 5×8 plates,	Each, 30 cts.
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Allderige's Developing Rocker.



THE regularity of the motion allowed by the Rocker necessitates the use of less solution and diminishes the danger of streaked

Catalogue for Amateurs.

plates. It not only protects the hands, but serves also to raise the plate from the tray when desired. The rocker is adapted to the sizes of trays mostly used by professional and amateur. It is also useful in toning and fixing prints, the motion keeping the solution in constant agitation.

Price, each, \$1.50

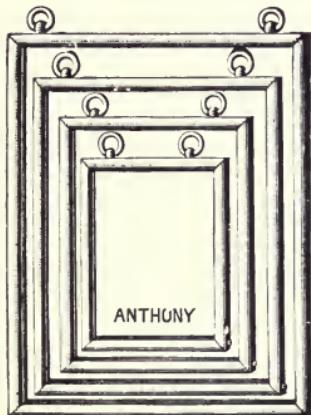
The Perfect Plate Handle.

M ADE in four sizes, of spring wire, handsomely nickelated. Size No. 1 is for plates $3\frac{1}{4} \times 4\frac{1}{4}$, $4\frac{1}{4} \times 6\frac{1}{2}$, or any plates having a $4\frac{1}{4}$ inch measurement. Size No. 2 is for any plates having a 5 inch measurement. Size No. 3 is for any plates having a $6\frac{1}{2}$ inch measurement. Size No. 4 is for any plates having an 8 inch measurement. Larger sizes made to order.

Price, 25c. each.



Patent Transparency Frames.



THESE are made with one side removable, enabling the transparency to slide into the frame easily and without danger of breaking. They are also made to hang either vertically or horizontally.

4 x 5, per doz.	\$3.36
5 x 7, "	3.60
5 x 8, "	4.08
6 $\frac{1}{2}$ x 7 $\frac{1}{2}$, "	4.56
6 $\frac{1}{2}$ x 8 $\frac{1}{2}$, "	4.56
6 $\frac{3}{4}$ x 9, "	5.25
8 x 10, "	5.76
10 x 12, "	9.00
11 x 14, "	10.80

Antique Silver Transparency Frames.

THESE FRAMES are handsomely embossed in a heavy leaf pattern and present a very rich and beautiful appearance. They are so arranged with a loop at each of the four corners that they may be used either vertically or horizontally.

4 x 5, per doz., .	\$3.75	6 $\frac{1}{4}$ x 9, per doz., .	\$5.75
5 x 8, " .	4.50	8 x 10, " .	6.25
6 $\frac{1}{2}$ x 7 $\frac{1}{2}$, " .	5.00	10 x 12, " .	9.50
6 $\frac{1}{2}$ x 8 $\frac{1}{2}$, " .	5.00	11 x 14, " .	11.25



Zig-Zag Transparency Frames.

Plain Nickel.

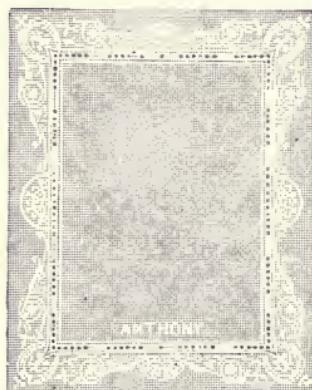
THESE by many are preferred to the regular styles, on account of the ease in fitting glasses of different thicknesses. All are made with ring in each corner, to hang either vertically or horizontally, as represented in cut illustrative of the Antique Silver.

4 x 5, per doz.,	\$4.00	6½ x 9, per doz.,	\$5.50
5 x 8, "	4.50	8 x 10, "	6.00
6½ x 7½, "	4.50	10 x 12, "	7.50
6½ x 8½, "	5.25	11 x 14, "	9.00

Plain Ground Glasses for Transparencies or Cameras.

4 x 5, each,	\$0.10	6½ x 8½, each,	\$0.26
4½ x 6½, "	13	8 x 10, "	32
5 x 8, "	18	10 x 12, "	50

Etched Ground Glass for Transparencies.



THESE GLASSES are etched with handsomely figured borders and the 8 x 10 and 10 x 12 sizes may be had in either of two or three designs. The other sizes are only supplied in one pattern.

6½ x 8½ glass for picture 4½ x 6½,	. . . . .	\$0.33
8 x 10 " " 5 x 7,	. . . . .	42
10 x 12 " " 7 x 9,	. . . . .	57
11 x 14 " " 6½ x 9½,	. . . . .	75

The 8 x 10 size is also carried in stock with the BORDER ETCHED IN COLOR. Price, 60c.

Catalogue for Amateurs.

Covering Glass for Lantern Slides.

Price, $3\frac{1}{4} \times 4$	Per dozen, 40 cents.
" $3\frac{1}{4} \times 4\frac{1}{4}$	" 45 "
" 4 x 5	" 60 "

Orange and Ruby Glass.

For Dark Rooms.

8 x 10, per light,	\$0.30
10 x 12, "	50
11 x 14, "	55
13 x 16, "	70
12 x 20, "	80

Ruby and Orange Fabric.

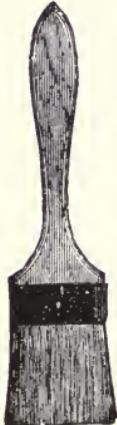
A VERY desirable article for lighting dark rooms. Price per square yard, either shade, 60 cents.

Hard Rubber Plates.

For Drying Paper Negatives.

4 x 5, $\frac{1}{16}$ in. thick,	10 cts.	$\frac{5}{16}$ in. thick,	15 cts.
5 x 7, "	18 "	"	27 "
5 x 8, "	20 "	"	30 "
6 $\frac{1}{2}$ x 8 $\frac{1}{2}$, "	30 "	"	45 "
8 x 10, "	40 "	"	60 "

Hard Rubber Set and Bound Photographers' Brushes.



THESSE BRUSHES, though somewhat more expensive than the ordinary make, are well worth the difference in price, being absolutely the best thing of the kind ever made. The bristles are secured

Catalogue for Amateurs.

by first immersing the butts (or stiff ends) of the bristles in soft rubber; they are then put upon the end of the handle (not around it as in the old way); a belt of rubber combined with metal is wound around the whole, covering the butt of the bristles, and conforming to a groove running around the adjoining end of the handle. The portion of the brush covered with rubber and metal is then placed in a die and vulcanized (or hardened) under heat and pressure. The result is a solid vulcanized head, in which the bristles are so thoroughly imbedded that it is impossible for them to get loose. The handle being dovetailed into the head (see sectional illustration), is also firmly secured.

It is self-evident that this method of constructing brushes is far superior to the old modes. These brushes are not affected in any manner by any solution in which they may be used, and they can be kept for any length of time in either damp or dry atmosphere without injury.

Width.	Each.	Width.	Each
1 inch Camel's Hair,	. . .	\$0.38	
1½ " "	. . .	57	1½ inch Bristle, paste,
2 " "	. . .	75	. . . \$0.20
2½ " "	. . .	95	2 " "
3 " "	. . .	1.35	2½ " "
		3	3 " "

Flat Hair Duster.



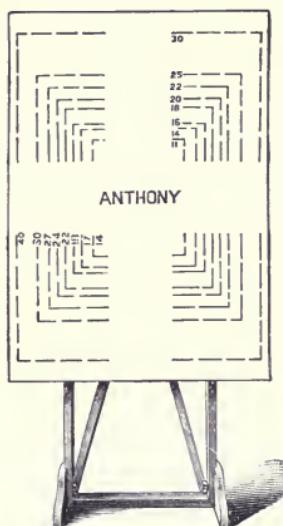
1 inch English, each,	\$0.20
1½ " "	25
2 " "	30
2½ " "	45

Flat Paste Brushes.

1 inch,	\$0.15
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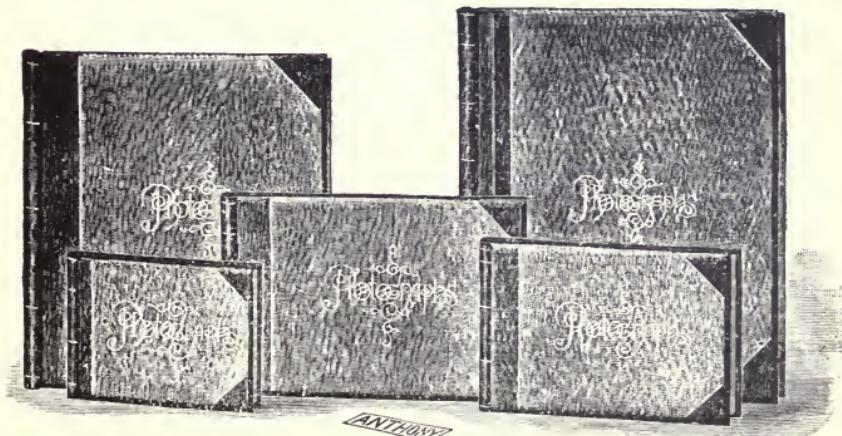
Catalogue for Amateurs.

Easel for Bromide Enlargements.



THIS is a most convenient adjunct to an enlarging outfit, as it is so made as to fold into very small compass when not in use and to be firm and practicable in every way. It is made in two sizes, 32 x 42 and 42 x 64, and is easily taken apart for stowing away or transportation. Prices, \$9.00 and \$10.00, respectively.

Anthony's Amateur Albums.



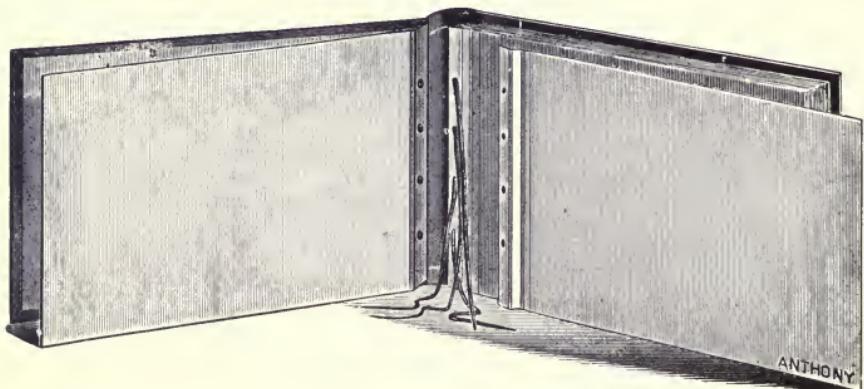
FOR preserving prints from negatives of one's own work, these Albums form a handsome and interesting addition to the library table. They are very beautifully bound in cloth, with gilt stamp on side,

Catalogue for Amateurs.

the corners being finished with leather. The purest quality of card-board is used in their manufacture, made expressly for mounting photographs and free from any chemicals injurious to prints.

Size of Card.	Plain, each.	With Gilt Lines, each.
5 x 6 for 3½ x 4½ pictures . . .	\$1.00	\$1.25
6 x 7 " 4 x 5 "	1.10	1.50
7 x 10 " 5 x 8 "	1.30	1.70
10 x 12 " 6½ x 8½ "	1.95	2.36
11 x 14 " 8 x 10 "	2.40	2.80

The Climax Removable Leaf Album.



THIS album is unequalled for convenience, strength, durability and gentility of appearance. Its greatest advantage lies in the fact that its leaves are entirely independent of the book itself and of each other, and one or all may be removed from the covers, and the whole or a part replaced or new leaves substituted with perfect ease. The covers and heavy fly leaves front and back, constitute the binding, the latter being very strongly made with linen guards, which are provided with four holes and lacings ; the cards are provided with a jointed linen guard which is punctured to match lace holes in fly leaves, and the whole operation of lacing one or more leaves in this way is simplicity itself.

By using this album, prints may be remounted on either or both sides of card, and may also be burnished without injury to the album, which is alone a most important feature.

The guards being made with a patent double flexible joint, admit of the album being opened in a perfectly flat position without difficulty, and the ease of binding makes possible a classification and rearrangement of subjects from time to time.

Catalogue for Amateurs.

Handsomely bound in full plain cloth, with linen laces, containing
25 Collins' cards, each—

Size of Cards.	Price.	Size of Cards.	Price.
5 x 6	\$1.15	10 x 12	\$2.25
6 x 7	1.25	11 x 14	2.50
7 x 10	1.50	14 x 17	5.35

Bound in cloth, with leather back and corners, with gold rules and gold side stamp and with silk laces, containing 25 Collins' cards, each—

Size of Cards.	Price.	Size of Cards.	Price.
5 x 6	\$1.35	11 x 14	\$3.00
6 x 8	1.45	14 x 17	5.75
7 x 10	2.00	16 x 20	7.25
10 x 12	2.75		

Extra leaves.

Size.	Price.	Size.	Price.
5 x 6, per package of one dozen, .	\$0.38	11 x 14, per package of one dozen, .	\$0.90
6 x 7, " " "	.40	14 x 17, " " "	2.00
7 x 10, " " "	.50	16 x 20, " " "	2.40
10 x 12, " " "	.75		

Eclipse Album.

(Patented.)



THE ECLIPSE ALBUM, with interchangeable leaves, is one of the most perfect manufactured. Each card mount is distinctly independent, and may be taken out or replaced without having to disturb any other leaf or part of album. They are handsomely finished in morocco, half leather bound, with gilt title, and enclosed in a neat box.

Extra cards for Eclipse Album may be had if desired.

Price with twenty-four Collins' Cards.

No. 1.	6 x 7 cards, for 4 x 5 photographs.....	\$2 25
" 2,	7 x 10 " 5 x 8 "	2 50
" 2½, 10 x 7½ upright.....		3 50
" 3, 10 x 12 cards, for 6½ x 8½ photographs.....		3 75
" 3½, 12 x 10 upright.....		4 25
" 4, 11 x 14 cards, for 8 x 10 photographs.....		4 25

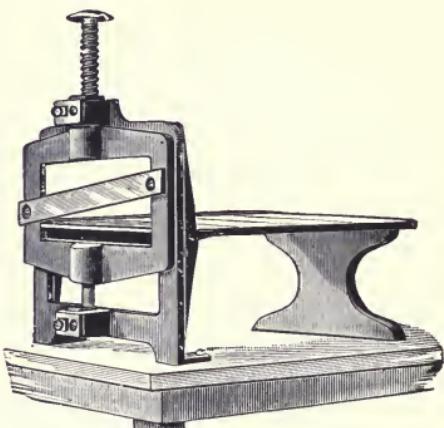
Trimming and Cutting Machine for Photographers' Use.

H AS been devised for the use of photographers, in trimming prints, cutting paper cards, and in many other uses of a similar nature.

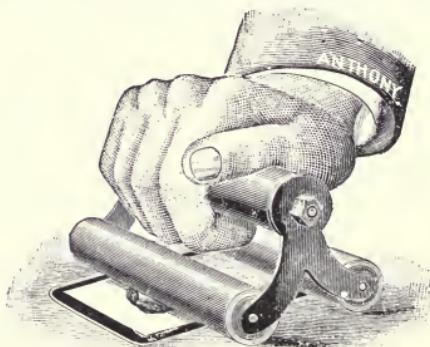
The prime features of its advantages are: An adjustable knife carriage having an easy and accurate action, with shearing cut. A table rest for material being cut. An accurate scale for obtaining uniformity in size. An absolute right-angle gauge for squaring prints, etc. A mechanical construction making it impossible for knife to run off, slip or tear prints, etc.

The old method of trimming prints by means of a "former" glass, and tintypes by use of shears, is far from satisfactory, as most photographers will testify, being slow and frequently resulting in utter destruction of the material. All these annoyances and difficulties are obviated by using this cutter. In architectural work the straight line side is cut first, which is then placed against the gauge, and print squared as desired. The machine is set complete upon a solid base, from which it can be detached and fastened to table as desired. All who have examined it and tested it speak very highly in its praise, owing to its general usefulness and cheapness.

No. 1, 6 in. clear cut,	.	.	.	.	.	.	.	.	.	.	.	\$3.00
" 2, 12 "	"	.	.	.	.	.	.	.	.	.	.	4.00



The Success Print Mounter.



The above illustration describes it fully.

6 inch,	.	.	.	\$1.00 12 inch,	\$1.50
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Daisy Permanent Starch Paste.

THERE has been for a long time a demand for a starch paste that would neither mold, sour or discolor, yet put up in a convenient form ready for use. We now introduce such an article, under the name of the Daisy Permanent Starch Paste.

Put up in	Each.
½ pint jars,	\$0.25
1 " bottles, . . . . .	.35
1 quart " . . . . .	.55
2 " "	1.00
1 gallon "	2.00

Focusing Cloths.

Extra fine quality rubber focusing cloth, per square yard, 50c.

Absorbent Cotton.

1 lb. package,	75c.
8 oz., in paper box,	40c.
4 oz., in paper box,	25c.

Anthony's Timing Plummet.

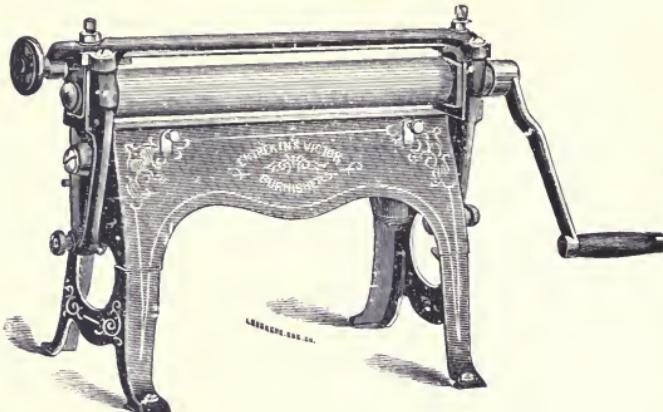


THIS device is constructed to mark one second of time at each beat, and is intended to simplify the timing of exposures.

Price----- 25 cents.

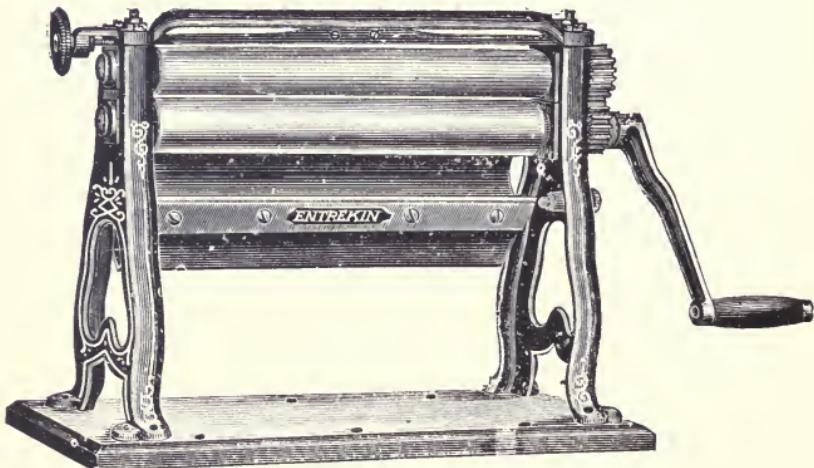
Catalogue for Amateurs.

Entrekin's Amateur Victor Burnisher.



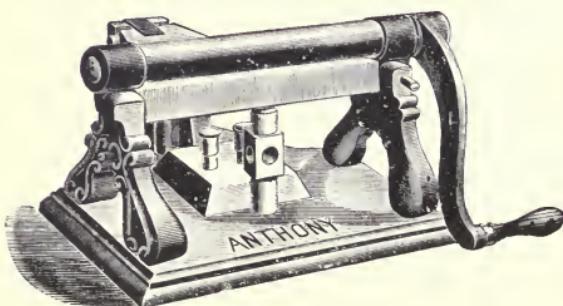
8 inch Victor \$9.00

Entrekin's Accurate Burnisher.



8 inch roll \$9.00 | 8 inch, with turn back roll \$10.00

Climax Champion Improved Burnisher.



A N excellent machine at a low price. The roller is hinged at one end, and by removing an iron key it is readily lifted clear of the base, and may be easily cleaned. It may be used with either gas or oil.

Catalogue for Amateurs.

6 inch.....	\$8.00	14 inch.....	\$27.00
10 " "	16.00	18 " "	34.00
22 inch.....		\$40.00	

Acme Burnisher,

8-INCH.

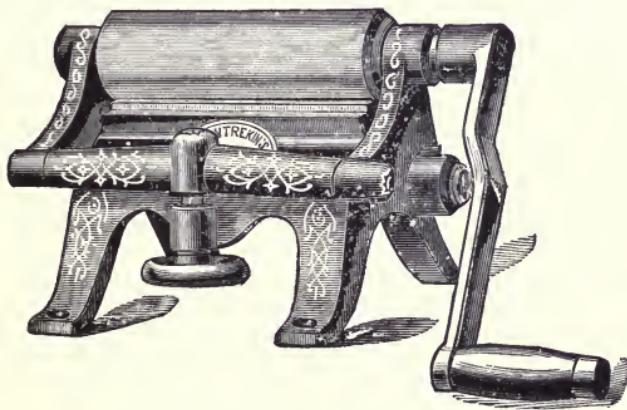


IS made with special reference to use by amateurs and those who use the smaller sizes of plates. It is a beautiful tool.

Price.....\$15.00

Entrekin's Eureka Burnisher.

THE superiority of the Eureka Burnisher consists in its cheapness, simplicity and effectiveness, and the impossibility of the machine getting out of order.



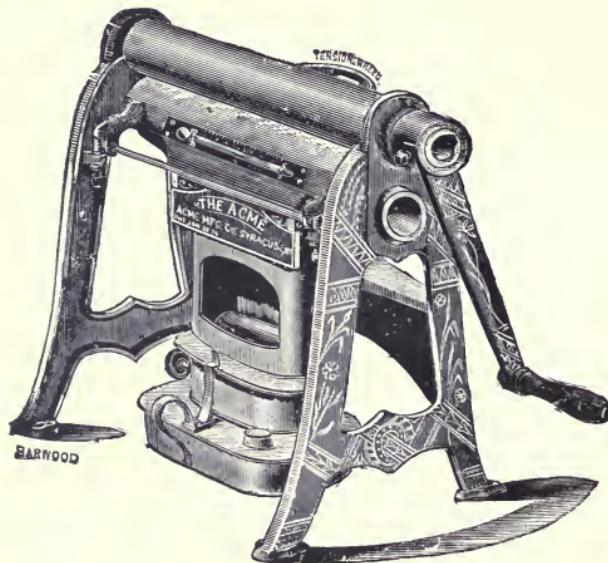
The Burnisher can be heated with any kind of lamp —alcohol, coal oil, or gas. During the process of heating, the roll can be turned back from the burnishing tool, thereby preventing the condensation of moisture on the roll or tool.

To dress the burnishing tool, the roll is simply turned back from the tool in an instant. No hot plates to handle, and consequently no burnt fingers.

The machine has also the patent removable burnishing tool, which is a decided advantage.

6 inch roll.....	\$10.00	14 inch roll.....	\$20.00
10 " "	15.00	20 " "	40.00
25 inch roll.....		\$60.00	

Acme Flue-Heating Burnisher.



ECONOMICAL. No moisture on rolls. It can be heated in a few minutes. Perfect combustion. Heat gauged by thermometer, and held at one point by turning wick up or down.

11 inch roll, gas or oil,	\$25.00
15 " "	35.00
21 " "	55.00

Pine's Magnesium Flash Lamp.

For Use with Magnesium Powder Only.



(PATENT APPLIED FOR.)

ALAMP for burning Pure Magnesium, which combines simplicity, practicability, cleanliness of working and perfect combustion of powder at small expense.

The inventor, Mr. E. M. Pine, is one of the most successful of amateur

Catalogue for Amateurs.

photographers; his Flash Light Photographs having been awarded first prize at the Pittsburgh Exhibition in 1888.

Recognizing the danger attending the use of the various Explosive Compounds heretofore used for illuminating, Mr. Pine has succeeded, after much experimenting, in inventing a Lamp for burning Pure Magnesium, and takes pride in offering one which, for brilliancy, rapidity and simplicity, has been pronounced by professional photographers, who have tested it, to be the most complete Flash Lamp in the market. Its peculiar construction insures perfect combustion, and as magnesium is non-explosive, absolute safety is assured.

The Lamp is so portable that it can be easily carried in the pocket; weight about 4 ounces. Directions for use accompany each Lamp.

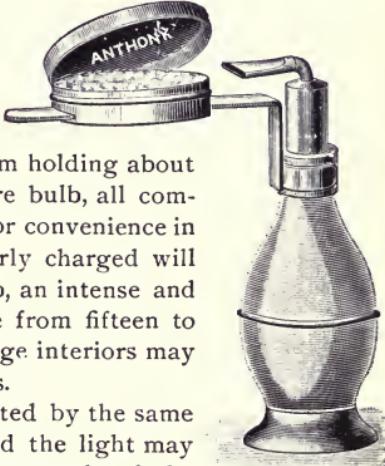
Price of Lamp as per cut, complete, with one dozen capsules packed in pasteboard box, with directions, \$2.50. Extra loaded capsules per dozen, 60 cents.

Mize Flash Lamp.

(Patented Oct. 22, 1889.)

THE LAMP here offered embodies the latest improvements of the original inventor of this system of magnesium lighting. It consists of three essential parts, namely: a large flat alcohol lamp, a receptacle for magnesium holding about sixty grains, and a large hand pressure bulb, all compactly joined together, but separable for convenience in carrying. The apparatus when properly charged will give, with a single pressure on the bulb, an intense and brilliant light sufficient to fully expose from fifteen to twenty feet. By repeated pressures, large interiors may be photographed with wide angle lenses.

The apparatus is held in and operated by the same hand, and requires no other support, and the light may be projected in any direction, and at any angle of elevation.



CAUTION.—The so-called "flash powders" should never be used in this or any other form of lamp, but only pure magnesium.

The Reeves Magnesium Flash Lamp.



REFERENCE to the cut shows its simplicity and easy method of using. The rimmed back, 7 x 9½ inches in size, holds horizontally two wicks, the pan below has other wicks or pads of cotton wool, surrounding the bowl of an ingeniously shaped brass blow pipe, to which is attached rubber tube and bulb. To use it, the pipe is charged with powdered metallic magnesium, a small quantity of alcohol poured on the wicks, which, when lighted, give a very large flame (the width of the back and several inches higher), pressure on the bulb fires the magnesium through the blaze, the result being a flash of tremendous size and actinic power. Then the back, which is hinged, is shut down, at once extinguishing the blazing alcohol. There is no smoke, and there being no reservoir for alcohol, there is absolutely no danger of explosion. The bowl of the blow-pipe is so designed that it spreads the magnesium in a fan-like shape through all parts of the flame, using only about twelve grains of powder. Inside the hinged back are hooks to fasten the wicks, also a false back with curved bottom to convey the superfluous alcohol from upper wicks into lower pan. The back has spring to set it at any angle; there is a guard or fender to blow-pipe to prevent it over-heating, and cover for same. The whole is well and strongly made throughout out of Russia iron, neatly mounted on metal-covered board, packed in box.

Full instructions inclosed with lamp.

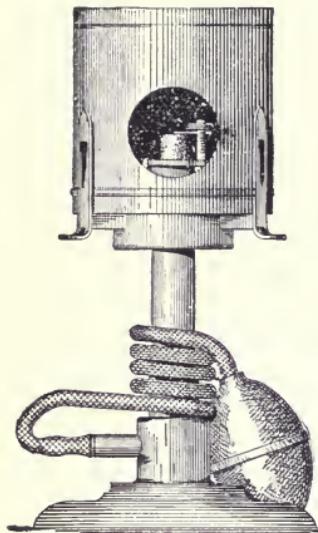
Price, complete, including rubber tube and bulb, wicks, etc., . . . \$3.00

CAUTION.—Do not use any of the so-called flash powders in this or any other form of lamp, but only pure magnesium.

Catalogue for Amateurs.

The Safety Flash Igniter.

(Patent applied for.)



enough for over 100 exposures, 25 cts. Extra rubber tubing in lengths up to 50 feet, 5 cents per foot.

THIS IGNITER may be used for either Compound Flash Powders, Magnesium Cartridges or pure Magnesium Powder on a substratum of Flash Cotton.

It is safe, reliable and simple in construction, consisting of a carbon heat arranged under a receptacle for the cotton and magnesium, the latter being fired by pressure of rubber bulb which forces the flame upward.

It may be used with long or short tube and is perfectly under the control of operator.

Price, including box of scented carbons, rubber bulb and 3 feet of rubber tubing, complete in wooden box, \$4.00. Extra boxes of prepared and scented carbons,

enough for over 100 exposures, 25 cts. Extra rubber tubing in lengths up to 50 feet, 5 cents per foot.

Imperial Magnesium Flash Lamp.

(Patent applied for.)



THE simplicity of construction and manipulation of this lamp, enabling all to use it with the utmost ease and certainty of result, will at once commend it to both the professional and amateur. The

Catalogue for Amateurs.

amount of smoke given off is insignificant, exposure succeeding exposure without hindrance therefrom. The full charge is 15 grains (at the utmost 20 grains) of *pure magnesium*, a few grains, however (3 to 5), being sufficient for simple portraiture. Full directions accompany each lamp.

Price, \$6.00

CAUTION.—The so-called "flash powders" should never be used in this or any other form of lamp, but only pure magnesium.

Photogenic Pistol and Magnesium Cartridges

For instantaneous photography at night.



THE remarkable results obtained by using Photogenic Cartridges, fired from a pistol, have induced us to place them upon the market. Each cartridge will give sufficient light for an ordinary exposure or small group. They contain no chlorate of potash and can be handled without danger.

Pistols, each, \$4.00 | Cartridges, per box of 15, . . . \$1.00

Anthony's Pure Metallic Magnesium

For use with any of the ordinary Flash Lamps, or in combination with Anthony's Flash Cotton.

FOR use with Magnesium Lamps, according to printed directions furnished with the various kinds of lamp.

This Magnesium Powder, being entirely free from explosive compounds, will not ignite by application of fire only, but is suitable only for use with a flash lamp or with our flash cotton specially prepared for the purpose.

For use with Cotton—Directions: Sprinkle 15 grains or a teaspoon filled to water level of the powder, lightly and evenly over one or two layers of the flash cotton which has previously been picked out, into a flaky condition, free from lumps and bunches; taking care that the

Catalogue for Amateurs.

bottom layer is sufficiently thick to prevent the magnesium from filtering through it.

When ready to expose plate, ignite the cotton with match or taper, keeping well away from the flame which is very hot; for this reason it should be prepared and ignited on a metal plate or piece of asbestos board.

Remember, that with magnesium lamps, pure metallic magnesium is the only safe thing to use.

Never use compound flash powder of any kind in a lamp.

Price, 50 cents per ounce.

Anthony's Compound Magnesium Powder

For Instantaneous Photography at Night, or in Dimly Lighted
Interiors.

THIS POWDER is *unexcelled* for its *actinic power* and *absolute safety*. It is entirely free from chlorate of potass—it *cannot explode, either by friction or concussion, but can only be ignited by actual contact with flame*. It is especially useful in copying with orthochromatic plates, objects in which color values are particularly important. Oil paintings and rich interior decorations photographed by this light, in conjunction with orthochromatic plates, will give results of extraordinary fidelity.

It is put up in cans, each containing one ounce, which is sufficient for two dozen ordinary exposures.

This powder is only intended for use *without lamp*, and *must never be used with lamp of any make*.

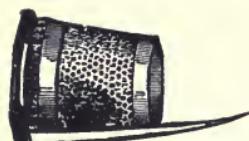
Price, per ounce, 50 cts.

Elastic Felt Printing Pads.

FOR USE IN THE PRINTING FRAME, they insure contact of the negative and paper and lessen the liability of breakage. They are superior to anything heretofore offered, and at following moderate prices. They are put up in boxes of one dozen each.

For		Dozen.	For		Dozen.
3 $\frac{1}{4}$ x 4 $\frac{1}{4}$	Printing Frame,	\$0.35	10 x 12	Printing Frame,	\$2.40
4 x 5	" "	40	11 x 14	" "	3.00
4 $\frac{1}{4}$ x 5 $\frac{1}{2}$	" "	45	14 x 17	" "	5.00
4 $\frac{1}{4}$ x 6 $\frac{1}{2}$	" "	60	16 x 20	" "	7.00
5 x 7	" "	70	17 x 20	" "	7.50
5 x 8	" "	80	18 x 22	" "	9.00
6 $\frac{1}{2}$ x 8 $\frac{1}{2}$	" "	1.08	20 x 24	" "	0.75
8 x 10	" "	1.75			

The Efficient Plate Lifter.



THIS PLATE LIFTER is very nearly like an ordinary open-end thimble with a pointed piece of metal soldered securely to it, as shown in the illustration. Where a number of plates are developed in one dish, this plate lifter is not only a convenience, but quite a necessity. Price, 15 cents each.

Squeegees. (Velvet Rubber.)

For insuring the exclusion of air and obtaining perfect contact of prints with hard rubber plates or prepared glass, in the process of making glacé prints with bromide paper, aristotype paper, etc., etc.

6 inch,	40 cts.	8 inch,	50 cts.	12 inch,	75 cts.
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Photographers' Note Book.

THE MOST compact and simple for recording exposures, and containing perforated sheet numbers for 288 negatives, with pages for recording number of holder, progressive number, date, subject, time, lens, focus, diaphragm, time of day, plate, and general remarks. Neatly and strongly bound, measuring $3 \times 4\frac{1}{4}$ inches.

Price, including pencil,	each, 25 cts.
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Artist's Cuffs.

(For Photographers' use.)

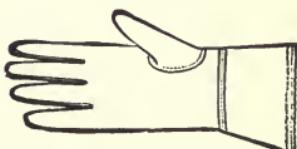


TO PREVENT soiling the sleeves and cuffs while developing negatives.

Price,	50 cents per pair.
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Rubber Gloves.

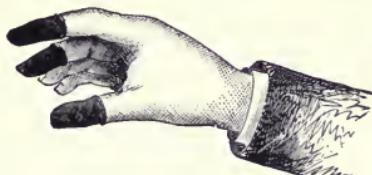
JUST the thing to keep pyrogallic acid off the hands of those who prefer the pyrogallic developer.



Sizes, ladies' long, Nos. 7, 8 and 9, per pair,	. . . . .	\$1.50
" " short, " " " "	. . . . .	1.25
" gents' long, " 12, 13 and 14, " "	. . . . .	1.65
" " short, " " " "	. . . . .	1.35

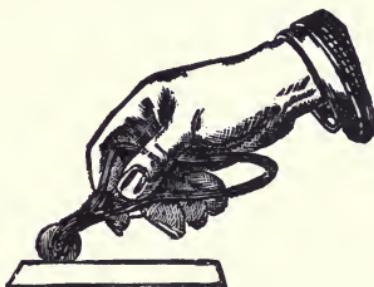
Catalogue for Amateurs.

Pure Rubber Finger Tips.



Price, per set of three, 15 cts.

Photograph Trimmers.



Straight, each, 20 cts. | Revolving, each, 30 cts.

Varnish for Gelatine Dry Plate Negatives.

IN CONSEQUENCE of the peculiarity exhibited by gelatine negatives, it seems to be desirable that any varnish used upon them should be as hard and as insoluble as possible. We have consequently prepared and are now ready to furnish a proper varnish at the same rate as our other negative varnishes. It is very clear, does not impart any color to the negative, and will not soften in the heat of the sun.

The trouble in varnishing gelatine negatives arises from the fact that the gelatine film is very apt to absorb or retain moisture. It should therefore be well heated, to drive off all moisture before the varnish is applied.

It should then be allowed to cool off to the temperature proper for varnishing. As the film is liable to retain within it the solvent of the varnish, it should be allowed to cool after the varnishing, and then, before being used in printing, it should be well heated again to drive off any of the alcohol that may be retained in the film. All our negative varnishes, viz., the flint, the special, the retouching, and Mountfort's, can be used perfectly well with the precautions above noted, and it is better, even with the new dry plate varnish, to proceed in the same manner.

Price, per 6 ounce bottle,	. . . . .	\$0.40
" " Pint,	. . . . .	1.00
" " Quart,	. . . . .	1.90

Catalogue for Amateurs.

Amateurs' Card Stock.

PLAIN EDGE MOUNTS, ROUND CORNERS.
PRIMROSE AND PEARL.

	PER HUNDRED.
No. 108. Cartes de Visite, size $2\frac{1}{2} \times 4\frac{1}{8}$	\$0.30
" 108. Cabinets, size $4\frac{1}{4} \times 6\frac{1}{2}$ .....	.60
" 9. Boudoir ($5\frac{1}{4} \times 8\frac{1}{2}$) or 5 x 8	1.35
" 9. $3\frac{1}{8} \times 4\frac{1}{2}$ .....	.55
" 9. $4\frac{1}{4} \times 5\frac{1}{4}$ .....	.75

GOLD BEVELED EDGE MOUNTS, ROUND CORNERS.
PRIMROSE AND PEARL.

No. 106. Cartes de Visite, size $2\frac{1}{2} \times 4\frac{1}{8}$ .....	.65
" 106. Cabinets, size $4\frac{1}{4} \times 6\frac{1}{2}$	1.10
" 26. Boudoirs ($5\frac{1}{4} \times 8\frac{1}{2}$) or 5 x 8	2.50
" 106. Carré, size 3 x 3 .....	.80
" 26. $3\frac{1}{8} \times 4\frac{1}{2}$	1.15
" 26. $4\frac{1}{4} \times 5\frac{1}{4}$	1.40
" 26. 5 x 7	2.20
" 26. $6\frac{1}{2} \times 8\frac{1}{2}$	3.60
" 26. 8 x 10	5.50

GOLD BEVELED EDGE MOUNTS, ROUND CORNERS.
DARK COLORS.

No. 127. Cartes de Visite, size $2\frac{1}{2} \times 4\frac{1}{8}$, maroon .....	.70
" 66. " " " black .....	.70
" 114. Cabinets, size $4\frac{1}{4} \times 6\frac{1}{2}$, maroon	1.20
" 66. " " " black	1.30
" 65. Boudoir ($5\frac{1}{4} \times 8\frac{1}{2}$) or 5 x 8, maroon	2.75
" 26. " " " black	2.85
" 65. Carré, size 3 x 3, maroon .....	.80
" 65. $3\frac{1}{8} \times 4\frac{1}{2}$, maroon	1.10
" 26. " " black	1.25
" 65. $4\frac{1}{4} \times 5\frac{1}{4}$, maroon	1.40
" 26. " " black	1.55
" 65. 5 x 7, maroon	2.40
" 26. " " black	2.50
" 67. $6\frac{1}{2} \times 8\frac{1}{2}$, maroon	3.88
" 26. " " black	3.88
" 67. 8 x 10, maroon	6.13
" 26. " " black	6.13

PLAIN CARDBOARD, SQUARE CORNERS.
WHITE OR GRAY.

No. 1. $6\frac{1}{2} \times 8\frac{1}{2}$	1.20
" 1. 8 x 10	1.60
" 1. 10 x 12	2.38

PLAIN WHITE CARDS, WITH GILT LINES.

No. 2. $6\frac{1}{2} \times 8\frac{1}{2}$, gilt lines, 4 x 5	2.00
" 2. 8 x 10, " 5 x 8	2.40

PRICE LIST

OF

PHOTOGRAPHIC CHEMICALS

SOLD AND MANUFACTURED BY

E. & H. T. ANTHONY & CO.

[WARRANTED PURE AND OF FULL WEIGHT AND MEASUREMENT.]



c. b. 11 signifies corked bottle, 11 cts.; g. s. b. 18 signifies glass stoppered bottle, 18 cts.

Acid, Acetic, No. 8, in 1 lb. bottle, per lb.....	\$0.20
" " by the 5 lb., in 1 bottle, per bottle.....	.70
" " Glacial, g. s. b., 1 oz., 15 cents; 4 oz., 28 cents; 8 oz., 35 cents; per lb.	.50
Boracic, per oz.....	.05
Carbolic, crystal, g. s. b., per oz.....	.18
Citric, c. b., per oz., 12 cents; per lb.....	.90
Formic, g. s. b., per oz.....	.25
Gallic, c. b., per oz.....	.20
Hydrobromic, g. s. b., per oz.....	.20
Muriatic, C. P., g. s. b., per lb.....	.45
Nitric, com., g. s. b., per 7 lb. bottle.....	1.25
" " " per lb.....	.30
" " C. P. ".....	.45
" " " per oz., 12 cents; per $\frac{1}{2}$ lb.....	.30
Oxalic, c. b., per oz., 10 cents; per lb.....	.30
Pyrogallic, E. A., c. b., per oz. bottle.....	.40
" " " per $\frac{1}{2}$ oz. bottle, about 47 5-grain tablets.....	.40
" " " oz. can.....	.35
" " " 4 oz. can.....	1.25
" " " 8 " ".....	2.25
" " " 16 " ".....	4.25
" " " 5 lb. " ".....	@ 4.00

THE E. A. PYROGALLIC ACID YOU CAN ALWAYS DEPEND UPON.

Recommended by

NEWTON, WARDLAW, COOPER and ROCHE, all of whom are known to every Photographer.

THE STANLEY DRY PLATE CO. THE CARBUTT DRY PLATE CO.
THE CRAMER DRY PLATE CO. THE ST. LOUIS DRY PLATE CO.

And Many Others.

 See that it has the E. A. Trade Mark.

Put up in 5 gr. tablets $\frac{1}{2}$ oz. in bottle.

In 1 ounce bottles,

" 1 " cans.

" 4 " "

" 8 " "

" 16 " "

" 5 pound "

ASK YOUR DEALER FOR IT.

Cooper's Concentrated Developer, which is found to work so well on all kinds of

plates, is compounded with the E. A. Sublimed Pyro; also Anthony's Economical Developer and Stanley's Concentrated Developer.

Schering's Pyrogallic Acid; prices same as E. A.



Catalogue for Amateurs.

Acid , Sulphuric, C. P., g. s. b., 1 oz., 12 cents; 4 oz. bottle, 20 cents; per lb. bottle	.45
Salicylic, per oz.	.25
Sulphurous, bottle included, per lb.	.40
Tartaric, bottle included, per lb.	.80
Albumen , dry, per oz.	.15
Alcohol , Attwood's, 95 per cent. c. b., per pint	.50
Quart, 90 cents; $\frac{1}{2}$ gallon, \$1.80; gallon, \$3.00, no bottle.	
Alum , Powdered, per lb.	.15
Chrome, per lb., in bottle	.30
Ammonia , Sulph. Cyanide, per oz.	.30
Ammonium , liq. conc., g. s. b., $\frac{1}{2}$ lb. bottle, 25 cents; lb. bottle, 35 cents; 4 lb	.95
Iodide, Anthony's C. P., per oz.	.45
Bromide, Anthony's C. P., bottle included, per oz., 15 cents; per lb.	.85
Bichromate, c. b., bottle included, per lb.	3.00
Carbonate, c. b., bottle included per lb.	.60
Chloride, c. b., bottle included, 1 oz., 10 cents; 8 oz., 30 cents; per lb	.45
Hydrosulphate, c. b., bottle included, per 5 lb.	2.60
Nitrate, fused, c. b., per oz., 10 cents; 1 lb. bottle	.50
Sulphocyanide, c. b., bottle included, per oz.	.25
Barium , Nitrate, c. b., bottle included, per oz., 10 cents; per lb.	.55
Carbonate, c. b., " " 15 " "	1.50
Chloride, c. b., " " 10 " "	.55
Benzole , extra quality, c. b., bottle included, per pint	.70
Borax , per lb.	.25
Bromine , packed in tin, g. s. b., bottle included, per oz.	.25
Cadmium , Bromide, c. b., bottle included, per oz.	.25
Iodide, c. b., bottle included, per oz.	.50
Chloride, c. b., bottle included, per oz.	.50
Calcium , Chloride, c. b., bottle included, per oz., 13 cents; per $\frac{1}{2}$ lb. bottle	.35
Iodide, g. s. b., bottle included, per oz.	.55
Bromide, g. s. b., bottle included, per oz.	.35
Chloroform , c. b., bottle included, 1 oz. bottle, 18 cents; per lb. bottle	1.50
Copper , sulph., C. P., c. b., bottle included, per lb.	.55
Acetate, c. b., bottle included, per oz.	.15
Chloride, c. b., bottle included, per oz.	.15
Developer , H. T. A., per package of $\frac{1}{4}$ lb., 8 cents; $\frac{1}{2}$ lb.	.15
Anthony's Economical, for dry plates, per $\frac{1}{2}$ lb. bottle	.40
Cooper's Concentrated, " " " 50 cents; 1 lb. bottle	.90
Eikonogen	.55
Hydrochinone,	.55
Newton's Giant,	.55
Dermaline , to protect the hands, per bottle	.25
Dextrine , bulk	.12
Eikonogen , 1 oz., 50c.; $3\frac{1}{2}$ oz. bottle, \$1.40; $\frac{1}{2}$ lb.	3.20
Ether , sulph. conc. c. b., bottle included, per lb., 90 cents; $3\frac{1}{2}$ lb.	3.00
Enamelline , c. b., 6 oz.	.62
Glycerine , C. P., c. b., bottle included, oz. 15 cents; per lb.	.60
Gold , Chloride (liquid), 15 gr. bottles, per bottle	.75
Gold , Chloride (dry), 15 grains, per bottle	.60
Gold and Sodium (dry), 15 gr. bottles, per bottle	.45
Gum Arabic Select, per lb	1.00
Asphaltum, per lb.	.20
Benzoin, per lb.	.75
Camphor, per lb.	.45
Damar, per lb.	.50
Mastic, per lb.	2.25

Catalogue for Amateurs.

Gum	Sandarac, per lb	.50
	Shellac, bleached, per lb	.60
	Tragacanth, per lb	1.20
	White Pine Turpentine, per lb	.20
Hydrochinone , E. A., per oz		.50
	Merk's, per oz	.60
	H. & F., per oz	.60
	E. A. Tablets, per $\frac{1}{2}$ oz., about 54 4-grain tablets	.50
Hydroxylamine , per oz		1.50
Iodine , resub., g. s. b., per oz		.45
Iridium , Potassic chloride, per bottle of 15 grains		1.00
Iron , Sulphate, bulk, per lb		.06
	" pure, c. b., bottle included, per lb	.60
	" and Ammonia, per lb	.15
Iodide, g. s. b., per oz		.40
Citrate and Ammonia, c. b., bottle included, per lb		.85
Lactate, c. b., per oz		.18
Perchloride, c. b., bottle included, per lb		1.00
Kaolin , bulk, per lb		.10
Lead , Acetate, C. P., c. b., bottle included, per oz., 12 cents; per lb		.55
Chloride, c. b., bottle included, per oz		.15
Nitrate, " " "		.12
Lime , Carbonate, bulk, per lb		.15
Chloride, c. b., in boxes, per lb		.20
Lithium , Iodide, g. s. b., bottle included, per oz		.90
Bromide, g. s. b., bottle included, per oz		.40
Litmus Paper , blue and red, sheet 5 cents; per doz		.50
Magnesia , Nitrate, c. b., bottle included, 1 oz., 15 cents; per lb		1.10
Magnesium Powder, per oz., 50 cents; per pound		5.25
Bromide, g. s. b., bottle included, per oz		.50
Chloride, g. s. b., bottle included, per oz		.15
Iodide, g. s. b., bottle included, per oz		.75
Calcined (oxide), per lb		1.00
Manganese (black oxide), bulk per lb		.10
Mercury , Bichloride, c. b., bottle included, per oz., 15 cents; 4 oz., 25 cents; 8 ozs., 45 cents; 1 lb		.75
Naphtha , (wood), c. b., bottle included, per lb		.50
Oil Lavander , per 2 oz, bottle		.30
Palladium , Sodio-chloride, c. b., 15 grains		1.00
Paraffine , per lb		.35
Potass , Carb., per 1 oz. bottle, about 87 5-grain tablets		.20
Caustic, per oz		.15
Meta-bisulph., per oz		.38
Sulpho-cyanide, per oz		.30
Potassium Bromide, bottle included, c. b., per oz., 15 cents; per lb		.70
" per $\frac{1}{2}$ oz. bottle, about 106 2-grain tablets		.20
Bicarbonate, bottle included, per lb		.30
Bichromate, C. P., c. b., bottle included, per lb		.90
" com., in paper, per lb		.27
Carbonate, per lb		.25
Chlorate, bottle included, per lb		.40
Chloride, " " "		.65
Cyanide, c. b., bottle included, $\frac{1}{4}$ lb. bottle, 25c; $\frac{1}{2}$ lb. bottle 35c; per lb		.65
Ferrocyanide (Yellow Prussiate), bottle included, per lb		.70

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Potassium , Ferricyanide (Red Prussiate), bottle included, per lb	1.00
" " " C. P. " " "	1.50
Iodide, c. b., bottle included, per oz35
Nitrate, c. b., " " per lb .....	.35
Permanganate, c. b., bottle included, per oz .....	.25
Sulphuret, c. b., bottle included, $\frac{1}{2}$ lb., 15 cents ; $\frac{1}{2}$ lb., 25 cents ; per lb .....	.40
Oxalate, per lb .....	.30
Sal Rochelle , bulk per lb .....	.60
Silicon , per box .....	.25
Silver Nitrate , variable (about 85 cents per oz.)	
Soap , Silicate, per cake .....	.15
Castile, White, per lb .....	.40
Soda , Caustic, per oz .....	.20
Carb., per 1 oz. bottle, about 87 5-grain tablets .....	.20
Phosphate, c. b., bottle included, per lb .....	.35
Sulphate, C. P., " " " " .....	.55
Sulphite, granular, c. b., bottle included, $\frac{1}{2}$ lb. 30 cents ; per lb .....	.54
Sulphite, crystal, E. A., bottle included, 1 lb. bottle, 30 cents ; 1 lb. cans, 20 cents ; 5 lb. cans .....	.80
Sulphite, per 1 oz. bottle about 87 5-grain tablets .....	.20
Tungstate, c. b., bottle included, per oz .....	.15
Sodium , Acetate, c. b., bottle included, 1 oz., 12 cents ; 4 oz., 18 cents ; 8 oz., 25 cents ; per lb .....	.45
Bicarbonate, per lb .....	.12
Bromide, c. b., bottle included, per oz .....	.12
Carbonate (crystal), per box, per lb .....	.15
Chloride, c. b., per oz .....	.10
Citrate, c. b., bottle included, 1 oz. bottle, 15 cents ; 3 oz. bottle, 35 cents ; per lb	1.00
Hyposulphite, 1 lb. box, per lb., 7 cents ; 1 lb. bottle, per lb., 16 cents ; kegs of 112 lbs	4.00
Iodide, c. b., bottle included, per oz .....	.30
Nitrate, c. b., " " per lb .....	.35
Strontium , Chloride, c. b., bottle included, per oz .....	.10
Tannin , bottle included, per oz .....	.30
Uranium , Nitrate, g. s. b., bottle included, per oz .....	.90
Chloride, bottle included, per oz .....	.90
Sulphate, c. b., bottle included, per oz .....	.90
Wax , White, per lb	1.20
Zinc , Bromide, g. s. b., bottle included, per oz25
Iodide, g. s. b., bottle included, per oz60



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1891 CAMERAS

FACSIMILE OF A RARE CATALOG

After studying the daguerreotype process under Samuel F. B. Morse in his spare time, Edward Anthony became a professional photographer around 1842. He left the practice of daguerreotypy to become a dealer in daguerreotype materials in New York about 1847. Though initially an importer of photographic materials, he soon came to manufacture his own goods, eventually producing all the materials necessary for the practice of the art.

In 1852 Edward entered into partnership with his brother Henry, the firm name being changed to E. & H. T. Anthony & Co. in 1862. During the Civil War the Anthonys contributed to the documenting of the conflict by publishing many cartes-de-visite and stereograms of Mathew Brady. The name of the firm remained unchanged until a 1901 merger with the Scoville & Adams Co. to form the Anthony & Scovill Co. which reorganized as the Ansco Co. in 1907. Following a merger with the Agfa interests in 1928 and receivership in World War II, because of its German connections, the company eventually became GAF of the present day.

This 1891 catalogue was issued during a period of transition in photographic equipment. The successful production of gelatin dry plates in the early 1880's brought a tremendous increase in the popularity of photography with amateurs. The introduction by Anthony of the Schmid Patent Detective Camera initiated the development of the "hand camera" in America and started the "detective camera" craze, which by 1891 was still going strong.

This catalogue gives an idea of the types of equipment in use by amateurs in 1891, the still-popular folding-bed cameras and the increasingly-popular hand cameras. In fact, the only type of apparatus notably not present was Eastman's roll-film cameras, which were then sold directly by Eastman. The catalogue shows the lengths to which photographers went to conceal cameras by placing them in satchels or books or under a vest. It serves as a source of identification of equipment and illustrates the variety of apparatus necessary for the complete photographic process. The clarity of the line illustrations adds a feeling of the times hardly obtainable through today's photographic illustrations. This catalogue is a "must" for anyone interested in the technology, art, or practice of photography in the late 19th century.

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